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At MACtac®, we view our brand through the eyes of our customers.

MACtac TAKES YOU THERE, means nothing without the creativity and drive you apply to turn MACtac into your finished product. Your graphics, and our brand live and breathe with every success you enjoy. We are proud to offer our innovation, created with your input and the broadest range of graphics media, laminates and mounting films available:

PERMACOLOR®

PermaGard®

The laminates that created an industry. High-performance, intermediate and economy choices including our revolutionary PERMACOLOR RAYzor™, PERMACOLOR Enhancers, PG8000 Series and innovative PERMACOLOR ColorGard™ for UV inks.

PermaFlex®

High-performance rigid overlaminates for all of your trade show needs - including Lustex, the original luster finish.

PermaPrint®

Intermediate adhesives for both face and back mounting. Same quality standards as the rest of our PERMACOLOR line and a great value.

PermaTrans®

The industry standard for optically clear mounting adhesives.

Thermacolor® A full range of thermal protection films for image protection and encapsulation.



IMAGin®

The complete product family of digital media for graphics production, including MACtac's patented B-free® air-egress technology.

REBEL™

Multi-print and screen print media for economy, intermediate and high-performance applications.

MACmark®

12 product lines ranging from economy to high-performance and specialty needs - over 250 color choices in high-performance intermediate, translucent, fluorescent, sparkle metallic reflective, lustre and TuningFilms.



The Idea Book is a reference tool to guide users. The user is responsible for determining the products' suitability, including printability, adhesion and removal characteristics for the application. Please consult the Product Performance Guide at www.mactac.com/graphics for the latest, most up-to-date version. If there are any questions about applications and warranties, please contact your MACtac sales representative to discuss your requirements.

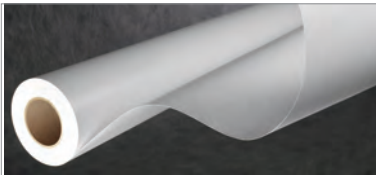


Open-Image Warranty is MACtac's way of keeping warranty matters simple. We understand you have many options available for making graphics for an ever expanding variety of applications. When it comes to making graphics with MACtac's media, you are covered. You make the choice of printer, ink, and laminate or clear coat that are best for your business and MACtac® will be the partner who stands behind you. Yes, we are that confident in our products! Simply provide us with your choices and if we have already tested the combinations you have chosen, you're done. If not, give us a sample of your combination, we'll run a comprehensive series of tests to insure the combination works and then warrant your application. If we find the combinations are not compatible we'll let you know that too and make alternate recommendations! It's that simple.

MACtac's Open-Image Warranty... You chose the system, we provide the peace of mind.

What makes our warranty unique?

The Open-Image Warranty ties all general MACtac warranties together in a single system to insure our customers are backed by the most flexible graphics warranty in the industry!



MACtac standard media warranties:

- 1) MACmark® cut vinyl films
- 2) IMAGin® digital media
- 3) PERMACOLOR® mounting and laminating films
- 4) REBEL® multi-print media

MACtac application specific warranties:

- 1) Floor Graphics
- 2) Vehicle Wraps

In addition, MACtac partners with most major printer and ink manufacturers to insure product compatibility. We run meticulous testing on various combinations in order to offer this guarantee of compatibility and durability.

How to Get Help with your Open-Image Warranty questions...

1. Your Regional Sales Manager
2. Customer Service at 1-866-622-8223
3. Technical Marketing
4. www.MACtac.com/Graphics for:
 - Product Performance Guides
 - Technical Assistance Bulletins
 - ICC Profiles
 - Sales Literature
 - Distributor Information
 - Press Releases
 - Partnerships and warranties
 - What's new from MACtac

IMAGin[®] the possibilities.

IMAGin wide-format digital media offers material for all your application needs.

Available in widths from 30–64", matte and gloss finishes and permanent or removable adhesive, you can only **IMAGin** what MACTac[®] has to offer you. Our state of the art manufacturing technology allows us to offer you high-performance acrylic adhesives that perform like no other and our vinyls offer the best printing surface on the market. Our primary digital coating line is fully automated, so no human hand touches your **IMAGin** product until you open the box.



IMAGin[®]: Designed for wide-format printers

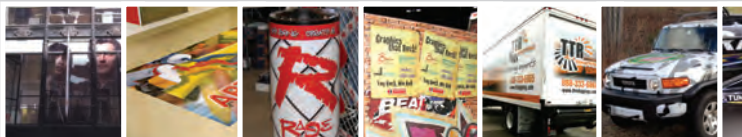


Application: Vehicle Wrap
Material: IMAGin B-free[®]

Features and Benefits:

- Full range of widths from 30-64"
- Large selection of 6" core products available
- Digital films compatible with a wide range of popular OEM and after-market inks, including latex
- OEM-tested and approved media including HP, VUTEK, Mimaki, Mutoh and many others.
- ICC profiles: More than 1,000 profiles available 24 hours a day, 7 days a week at <http://www.mactac.eu/rub-icc-profiles-download-20.htm>
- High-gloss finish and bright white face for more vibrant images and less ink consumption.
- Ease of application and sure bond adhesive systems.
- Open-Image Warranty™ system
- A variety of adhesive choices
- Patented B-free[®] air-egress on select products
- State-of-the-Art electronic inspection for inline manufacturing defect detection

IMAGin[®] Digital Imaging Media
by MACtac[®]



Product Series	Description	Window	Indoor Floor	P.O.P./Indoor	Trade Show	Full & Partial Fleet Wraps	Full & Partial Vehicle Wraps
High Performance: Ink Jet Media	B-free PRO - JT5529BFDP			✓		✓	✓
	B-free GRUV™ - GV929BFD			✓		✓	✓
	B-free GRUV - GV729BFD			✓	✓	Partial	Partial
	JT5728P	✓		✓	✓		
	B-free JT5796M BF	✓		✓	✓		
	B-free JT5798M BF	✓		✓	✓		
	B-free JT5999M BF	✓		✓	✓		
	JT5928P			✓	✓		
	JT5929P			✓	✓		
Intermediate: Ink Jet Media	JT5829P/5828P			✓	✓		
	JT5829R/5828R		✓	✓	✓		
	JT5826P			Banner			
	JT5828HTO			✓	✓		
	B-free GRUV - GV429R			✓	✓		
	B-free GRUV - GV529BFD			✓	✓		
	EMP328/329			✓	✓		
	EMR328/329		✓	✓	✓		
	JT828P/829P			✓	✓		
	IMAGin Verde™ - VM3209R	✓		✓	✓		
	REBEL™ - RB428P/429P*			✓	✓		
	REBEL - RB528P/529P*			✓	✓		
	REBEL - RB528R/529R*		✓	✓	✓		
	REBEL - RB599R	✓		✓	✓		
REBEL - RB599H			✓	✓			
Specialty: Ink Jet Media	DecoSatin™ DA012			✓	✓		
	StreetRap™ STR328			✓	✓		
	wallNOODLE® WN628	✓		✓	✓		
	IMAGin ROODLE™ RO628	✓		✓	✓		
	RoughRap™ WW100				✓		
	IMAGin digiTrans™ JDT429			✓		Partial Decals	Partial Decals
	WV159 - Window Perf	✓					Window
	WV139 - Window Perf	✓					Window
	WP129 - Window Perf	✓					Window
	5700 Reflective			✓	✓	✓	✓

Multi-Print Media

Visit www.MACtac.com/Graphics for the most up-to-date product literature and technical assistance guides.

								RECOMMENDED LAMINATES	PERMACOLOR RAYZO [™] LF3600 Series	PERMACOLOR Enhancers 6300 Series	PermaFlex [™] IP6200 Series PF6300, PF6400 & PF6500 Series	PermaGard [™] Series	PERMACOLOR LUV [™] Series	PERMACOLOR PromoGard [™]
								Adhesive Liner / Durability						
Boats	Billboard	Museum	Light Box	Bus	Untreated Concrete	Walls								
✓		✓		✓		✓	Aggressive Bubble-free, opaque acrylic 80# PCK / 8 - 10 years	✓	✓					
				✓		✓	Bubble-free, opaque acrylic 80# PCK / 8 - 10 years	✓	✓					
	✓	✓		✓		✓	Bubble-free, opaque acrylic 80# PCK / 5 - 7 years	✓	✓					
			✓				Permanent, clear acrylic 86# Kraft / 5 - 7 years							
			✓				Bubble-free, clear acrylic 80# PCK / 5 - 7 years							
			✓				Bubble-free, clear acrylic 80# PCK / 5 - 7 years							
		✓	✓				Bubble-free, clear acrylic 80# PCK / 5 - 7 years	✓						
		✓				✓	Permanent, opaque acrylic 86# Kraft / 5 - 7 years	✓	✓	✓		✓		
		✓				✓	Permanent, opaque acrylic 86# Kraft / 5 - 7 years	✓	✓	✓		✓		
	✓	✓		✓		✓	Permanent, opaque acrylic 86# Kraft / 4 years		✓	✓	✓	✓	✓	✓
	✓	✓		✓			Removable, opaque acrylic 86# Kraft / 4 years	✓	✓	✓		✓	✓	
							Special permanent, clear acrylic 86# Kraft / 3 years	✓						
	✓						High-tack permanent, opaque acrylic 86# Kraft / 3 years	✓	✓			✓	✓	
	✓					✓	Removable Bubble-free, opaque acrylic 98# PCK / 5 years	✓	✓			✓	✓	
	✓					✓	Aggressive Bubble-free, opaque acrylic 98# PCK / 5 years	✓	✓			✓	✓	
	✓						Permanent, opaque acrylic 72# PCK / 4 years					✓		
	✓						Removable, opaque acrylic 72# PCK / 4 years			✓		✓	✓	
	✓						Permanent, clear acrylic 74# Kraft / 4 years					✓	✓	
		✓					Permanent, clear acrylic 1.4-mil Clear Polyester / 2 years							
	✓						Permanent, clear acrylic 90# Polycoated Superflat [™] / 5 years					✓	✓	
	✓	✓					Permanent, clear acrylic 90# Polycoated Superflat / 5 years	✓				✓		
	✓	✓					Removable, clear acrylic 90# Polycoated Superflat / 5 years	✓		✓		✓		
	✓		✓				Removable, clear acrylic 90# PCK / 5 years	✓						
	✓						High-Tack, clear acrylic 90# PCK / 5 years	✓						
		✓				✓	Repositionable, removable 86# PCK / 1 year outdoor, 3 years indoor							
					✓	Outdoor	Aggressive high-tack, clear acrylic 96# PCK / 6 months			Floor		✓		
		✓				✓	Removable, repositionable micro-sphere 90# PE Coated Kraft / 6 months - 1 year							
		✓				✓	Removable, repositionable 90# PCK / 1 year							
		✓			✓	✓	Permanent, opaque acrylic 80# PCK / 18 months	✓						
	✓			✓		✓	Semi-permanent, black opaque acrylic 74# Kraft / 3 years					✓		
							Semi-permanent, clear acrylic 7.0-mil film / 3 years	✓						
							Semi-permanent, clear acrylic 6.0-mil Paper / 2 year	✓						
							Semi-permanent, clear acrylic 86# White Kraft / 1 year	✓						
							Permanent, white acrylic 92# PCK / 7 years	✓						



JT5529BFD PRO is a 2.1-mil soft white gloss, highly conformable, high-performance PVC film designed for solvent- and latex ink jet printing. Coated on one side with an aggressive permanent, opaque, acrylic pressure-sensitive adhesive with air-egress technology and supplied with an 80# poly-coated liner. It is designed with a more robust initial adhesion which makes it ideal for installers used to quick bonding media.



Application: Vehicle Wrap
Material: IMAGin[®] B-free[®] PRO

Features and Benefits:

- 10 Year outdoor durability
- Air-egress for bubble-free applications
- Permanent, opaque, solvent-based acrylic adhesive
- Higher initial adhesion
- Superior print quality for vibrant images
- Screen printable with lay-flat liner

Typical Uses:

- Fleet graphics
- Marine Graphics
- Bus and automotive wraps
- Long-term outdoor signage

Use with:

- PERMACOLOR[®] RAYZor[™] - page 30
- PERMACOLOR Enhancers - page 31
- Window Perf JT5916 or WP129 - pgs 21-22

Physical Properties	Typical Values
Peel Adhesion , lb./in. 180° on Glass	- 15 min 2.3 - 30 min 2.5 - 24 hr 2.70
Quick Tack on Glass , lb./in ²	4.0 ± 0.7
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 0.5
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -58° to 194°F (-50° to 90°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
JX5529PRO164	54" x 164'	42



Gruv[™] GV929BFD is a 2.1-mil gloss white, soft calendered PVC film designed for ink jet printing. The product is coated on one side with a quick building, permanent, opaque, acrylic pressure-sensitive adhesive with air-egress technology and supplied with a 98# polycoated liner. GV929BFD is designed for long-term outdoor, vehicle markings on flat, curved, complex and riveted surfaces.

Features and Benefits:

- Nine year outdoor durability
- Air-egress allows for bubble-free applications
- Permanent, opaque, solvent-based acrylic adhesive
- Superior print quality for vibrant images
- Screen printable with lay-flat liner

Typical Uses:

- Vehicle wraps
- Long-term indoor and outdoor signage

Use with:

- PERMACOLOR RAYZor - page 30
- PERMACOLOR Enhancers - page 31

Physical Properties	Typical Values
Peel Adhesion , lb./in. 180° on Glass	- 15 min 2.9 - 30 min 4.1 - 24 hr 4.7
Quick Tack on Glass , lb./in ²	4.6
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 0.4
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -4° to 160°F (-20° to 70°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
GV929BFDW54	54" x 150'	40
GV929BFDW54L75	54" x 75'	28



Gruv™ GV729BFD is a 3.0-mil gloss white, soft calendered PVC film designed for ink jet printing. The product is coated on one side with a quick building, permanent, opaque, acrylic pressure-sensitive adhesive with air-egress technology and supplied with a 98# polycoated liner. GV729BFD is designed for medium-term outdoor advertising and promotion applications on flat or simple curved surfaces. Use of PERMACOLOR® RAYZor™ overlaminates will extend the life of the graphic.

Features and Benefits:

- Seven year outdoor durability
- Air-egress adhesive for fast bubble-free application

Typical Uses:

- Long-term indoor & outdoor signage
- Partial vehicle wraps

Use with:

- PERMACOLOR RAYZor - page 30

Physical Properties	Typical Values
Peel Adhesion, lb./in. 180° on Glass	- 15 min 2.9 - 30 min 2.9 - 24 hr 4.7
Quick Tack on Glass, lb./in2	4.6
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)	max 0.4
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -4° to 160°F (-20° to 70°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
GV729BFDW54	54" x 150'	40



JT5728P is a 3.1-mil translucent, matte white, soft, polymeric plasticized, calendered PVC film designed for solvent-based ink jet printing. The product is coated on one side with a permanent, clear, acrylic pressure-sensitive adhesive and is supplied with an 86# Kraft liner. JT5728P is designed for internally illuminated signs (light boxes).

Features and Benefits:

- Seven year outdoor durability
- Permanent, solvent-based acrylic adhesive
- Matte white finish provides excellent ink anchorage.

Typical Uses:

- Light boxes

Physical Properties	Typical Values
Peel Adhesion, lb./in. 180° on Glass	- 24 hr 4.1-5.9
Quick Tack on Glass, lb./in2	4.3-6.2
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)	max 0.2
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -40° to 194°F (-40° to 90°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
JX5728P	54" x 164'	47

Application: Light Box Graphics
Material: IMAGin® JT5728P



BUBBLE FREE DIGITAL MEDIA

WINDOW FILMS



Application: Window Graphics
Material: B-free[®] Frosted Window Film



JT5796M BF - Frosted is a 3.1-mil translucent, matte frosted, polymeric PVC film designed for solvent-based ink jet printing. The product is coated on one side with a micro-structured, repositionable, permanent, clear acrylic adhesive and is supplied with an 80# Polycoated, layflat liner. The micro-structured adhesive allows for the increased speed of dry application on windows with no air bubbles or wrinkling. It also eliminates the messy clean up of wet-application fluids.

Features and Benefits:

- Frosted translucent facestock for etched glass look
- Micro-structured adhesive for dry applications on windows
- Reverse printable to be read through glass

Typical Uses:

- Window graphics
- Light boxes
- Use MACmark[®] 700 Series if application is unprinted décor

Physical Properties	Typical Values
Peel Adhesion , lb./in. 180° on Glass	- 24 hours 3.1-3.7
Quick Tack on Glass , lb./in ²	4.4-5.6
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 0.2
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -40° to 194°F (-40° to 90°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
JJ5796M BF	54" x 82'	24
JX5796M BF	54" x 164'	47



BUBBLE FREE DIGITAL MEDIA

WINDOW FILMS



Application: Window Graphics
Material: B-free[®] Dusted Window Film



JT5798M BF - Dusted is a 3.1-mil translucent, matte, dusted, polymeric PVC film designed for solvent-based ink jet printing. The product is coated on one side with a micro-structured, repositionable, permanent, clear acrylic adhesive and is supplied with an 80# Polycoated, layflat liner. The micro-structured adhesive allows for the increased speed of dry application on windows with no air bubbles or wrinkling. It also eliminates the messy clean up of wet-application fluids.

Features and Benefits:

- Dusted translucent facestock for etched glass look
- Micro-structured adhesive for dry applications on windows
- Reverse printable to be read through glass

Typical Uses:

- Window graphics
- Light boxes
- Use MACmark[®] 700 Series if application is unprinted décor

Physical Properties	Typical Values
Peel Adhesion , lb./in. 180° on Glass	- 24 hr 3.1-3.7
Quick Tack on Glass , lb./in ²	4.4-5.6
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 0.2
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -40° to 194°F (-40° to 90°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
JJ5798M BF	54" x 82'	24
JX5798M BF	54" x 164'	47



JT5999M BF - Clear is a 3.1-mil gloss, clear polymeric PVC film designed for solvent-based ink jet printing. The product is coated on one side with a micro-structured, repositionable, permanent, clear acrylic adhesive and is supplied with an 80# polycoated, layflat liner. The micro-structured adhesive allows for the increased speed of dry application on windows with no air bubbles or wrinkling. It also eliminates the messy clean up of wet-application fluids.

Features and Benefits:

- Gloss clear facestock
- Microstructured adhesive for dry applications on windows
- Reverse printable to be read through glass

Typical Uses:

- Window graphics

Tip:

- Not recommended for signs which will be handled extensively. Use IMAGin® Verde™ VM3209R, IMAGin JT5999R or REBEL™ RB599R for best results



Application: Window Graphics
Material: B-free® Clear Window Film

Physical Properties	Typical Values
Peel Adhesion , lb./in. 180° on Glass	- 24 hr 3.1-3.7
Quick Tack on Glass , lb./in ²	4.4-5.6
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 0.2
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -40° to 194°F (-40° to 90°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
JJ5999M BF	54" x 82'	24
JX5999M BF	54" x 164'	47



Application: Exterior Signage
Material: IMAGin® JT5929P



JT5928P is a 2.7-mil matte white, polymeric stabilized, soft calendered PVC film designed for solvent-based, ink jet printing. The product is coated on one side with a permanent, opaque, acrylic pressure-sensitive adhesive and supplied with an 86# Kraft liner. JT5928P is designed for long-term outdoor advertising and promotion applications on flat or curved surfaces.

Features and Benefits:

- 2.7-Mil matte white vinyl
- Seven year outdoor durability allows for longer lasting graphics.
- Permanent, opaque, solvent-based acrylic adhesive
- Conformable polymeric vinyl for ease of application around rivets and curves.

Typical Uses:

- Vehicle graphics
- Long-term signage

Use with:

- PERMACOLOR RAYZor Matte - page 30

Physical Properties	Typical Values
Peel Adhesion , lb./in. 180° on Glass	- 24 hr 3.2-5.0
Quick Tack on SS , lb./in ²	2.2-3.5
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 0.5
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -40° to 194°F (-40° to 90°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
JX5928P	54" x 164'	47



Application: Vehicle Wrap
Material: IMAGin[®] JT5929P



JT5929P is a 2.7-mil gloss white, polymeric stabilized, soft calendered PVC film designed for solvent-based, ink jet printing. The product is coated on one side with a permanent, opaque, acrylic pressure-sensitive adhesive and supplied with an 86# Kraft liner. JT5929P is designed for long-term outdoor advertising and promotion applications on flat or curved surfaces.

Features and Benefits:

- 2.7-Mil gloss white vinyl
- Seven year outdoor durability
- Permanent, opaque, solvent-based acrylic adhesive
- High-gloss vinyl produces vibrant colors

Typical Uses:

- Vehicle graphics
- Outdoor signage

Use with:

- PERMACOLOR[®] RAYZor[™] - page 30

Physical Properties	Typical Values	
Peel Adhesion , lb./in. 180° on Glass	- 24 hr	3.4-4.8
Quick Tack on Glass , lb./in ²		1.7-3.1
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)		max 0.5
Temperature Ranges Minimum Application: End Use:		50°F (+10°C) -40° to 194°F (-40° to 90°C)
Shelf Life: Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.		
Stock No.	Roll Width x Length	Weight: Pounds
JX5929P	54" x 164'	47



Application: Window Graphics
Material: IMAGin JT5999R



JT5999R is a 3.1-mil soft clear gloss, polymeric stabilized PVC film designed for solvent-based, ink jet printing. The product is coated on one side with clear removable, acrylic pressure-sensitive adhesive and supplied with an 86# Kraft liner. JT5999R is designed for long-term outdoor advertising and promotional markings on flat or slightly curved surfaces.

Features and Benefits:

- Five year outdoor durability
- Glossy, clear polymeric vinyl
- Removable, clear solvent-based acrylic adhesive for ease of use.
- Cleanly removable for up to two years after application on most substrates.

Typical Uses:

- Window graphics
- Floor graphics

Physical Properties	Typical Values	
Peel Adhesion , lb./in. 180° on Glass	- 24 hr	0.45-1.4
Quick Tack on Glass , lb./in ²		0.9-1.8
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)		max 0.5
Temperature Ranges Minimum Application: End Use:		50°F (+10°C) -40° to 158°F (-40° to 70°C)
Shelf Life: Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.		
Stock No.	Roll Width x Length	Weight: Pounds
JX5999R	54" x 164'	47



Application: Outdoor Signage
Material: IMAGin JT5828P



JT5828P 3.7-mil matte white & JT5829P 3.7-mil gloss white are soft calendered PVC film designed for solvent-based ink jet printing. These products are coated on one side with permanent, opaque, acrylic pressure-sensitive adhesive and supplied with an 86# Kraft liner. JT5828P/JT5829P are designed for medium-term, indoor and outdoor advertising and promotion on flat or slightly curved surfaces.

Features and Benefits:

- 3.7-Mil matte/gloss white vinyl
- Four year outdoor durability
- Permanent, opaque, solvent-based acrylic adhesive
- Bright white face offers truer vibrant colors

Typical Uses:

- Medium-term outdoor signage
- Arena graphics & transit applications

Use with:

- PERMACOLOR® Enhancers - page 31
- PERMACOLOR LUV Series - page 33

Physical Properties	JT5828P Typical Values	JT5829P Typical Values
Peel Adhesion, lb./in. 180° on Glass	- 24 hr	3.4-5.7 3.7-6.0
Quick Tack on Glass, lb./in2		2.5-3.9 2.8-3.9
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)		max 1.0
Temperature Ranges Minimum Application: End Use:		50°F (+10°C) -5° to 158°F (-20° to 70°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.	

Stock No.	Roll Width x Length	Weight: Pounds
JX5828P	54" x 164'	47
JX5829P	54" x 164'	47



Application: Indoor Advertising
Material: IMAGin 5828R



JT5828R 3.7-mil matte white & JT5829R 3.7-mil soft white gloss are soft calendered PVC films designed for solvent-based ink jet printing. These products are coated on one side with removable, opaque, acrylic pressure-sensitive adhesive and supplied with an 86# Kraft liner. JT5828R/JT5829R are designed for medium-term, indoor or outdoor advertising and promotions on flat or slightly curved surfaces.

Features and Benefits:

- 3.7-Mil soft white matte/gloss vinyl
- Four year outdoor durability
- Removable, opaque, solvent-based acrylic adhesive for ease of application
- Bright white face offers truer vibrant colors

Typical Uses:

- Billboards & Decals
- Medium-term outdoor signage
- Floor graphics
- Transit graphics

Use with:

- PermaFlex® IP6200 & PF6300* - page 27
 - PERMACOLOR Enhancers - page 31
 - PERMACOLOR LUV Series - page 33
- * Meets OSHA Standards for slip resistance, recommended for dry floors, wet surfaces & handicap accessible routes. See Performance Guides for more information.

Physical Properties	Typical Values
Peel Adhesion, lb./in. 180° on Stainless Steel	- 24 hr 0.6-1.6
Quick Tack on SS, lb./in2	0.5-1.3
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)	max 0.5
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -40° to 158°F (-40° to 70°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
JX5828R	54" x 164'	47
JX5829R	54" x 164'	47



Application: Floor Graphic
Material: IMAGin® JT5829R



JT5826P is a 2.8-mil matte white, very soft vinyl film designed for solvent-based, ink jet printing. The product is coated on one side with a permanent, clear, acrylic pressure-sensitive adhesive and supplied with an 86# Kraft liner. JT5826P is designed for indoor and outdoor applications such as plasticized banners and padded dasherboards, at baseball stadiums and warning tracks.

Features and Benefits:

- 2.8-Mil matte white vinyl
- Four year outdoor durability
- Permanent, clear, solvent-based acrylic adhesive
- Special formulation specifically for plasticized banners

Typical Uses:

- Vinyl designed for applications to plasticized banners

Physical Properties	Typical Values
Peel Adhesion, lb./in. 180° on Glass	- 24 hr 2.6-4.5
Quick Tack on Glass, lb./in²	3.2-5.0
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)	max 0.5
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -5° to 158°F (-20° to 70°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
JX5826P	54" x 164'	47



Application: Signage
Material: IMAGin[®] JT5828P



JT5828HTO is a 3.7-mil matte white, soft calendered PVC film designed for solvent-based ink jet printing. This product is coated on one side with high-tack, permanent, opaque, solvent-based acrylic pressure-sensitive adhesive and supplied with an 86# Kraft liner. JT5828HTO is designed for carpet graphics; medium-term, indoor or outdoor advertising; tri-vision or flat billboards; promotion on flat or slightly curved surfaces; and hard to stick to materials like polyethylene and dasher boards.

Features and Benefits:

- 3.7-Mil matte white vinyl
- Four year outdoor durability
- Special high-tack, opaque, solvent-based adhesive for difficult applications.
- Brilliant white face for truer, brighter colors.

Typical Uses:

- Carpet graphics
- Tri-vision billboards
- Medium-term outdoor advertising
- Low surface energy substrates

Use with:

- PermaFlex IP6200 & PF6300* - page 27
- PERMACOLOR[®] LUV Series - page 33
- * Meets OSHA Standards for slip resistance, recommended for dry floors, wet surfaces & handicap accessible routes. See Performance Guides for more information.

Physical Properties	Typical Values
Peel Adhesion, lb./in. 180° on Glass	- 30 min. - 24 hr 5.5-7.0 6.5-7.5
Quick Tack on Glass, lb./in²	4.0-5.7
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)	max 1.5
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -5° to 158°F (-20° to 70°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
JX5828HTO	54" x 164'	47



Application: P.O.P & Store Displays
Material: B-free[®] Gruv[™]



GV429R is a 3.0 mil gloss white vinyl removable air-egress media for solvent, eco-solvent, and UV wide-format printing, as well as screen printing. Coated on one side with a removable opaque adhesive and supplied with an 98# moisture-stable polycoated paper liner, GV429R is ideal for wall graphics, indoor and outdoor signage, and point of purchase applications

Features and Benefits:

- 3.0-Mil gloss white PVC
- B-free[®] air-egress for easy installation
- Bright white face for excellent color fidelity
- Up to one year removability and 4 year unprinted outdoor life.

Typical Uses:

- Wall Graphics
- Indoor and Outdoor Signage
- Displays, Tradeshow, POP

Use with:

- PERMACOLOR[®] RAYZor[™] - page 30
- PERMACOLOR[®] LUV Series - page 33

Physical Properties	Typical Values
Peel Adhesion , lb./in. 180° on Glass 180° on Stainless Steel	- 24 hr 1.6 - 24 hr 1.2
Quick Tack on Glass, lb./in2 on Stainless Steel, lb./in2	1.0 0.9
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 0.5
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -40° to 158°F (-40° to 70°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
GV429RW54L150	54" x 150'	40



Application: Tradeshow Display
Material: B-free[®] Gruv[™]



GV529BFD is a 3.0-mil gloss white, soft calendered PVC film designed for ink jet printing. The product is coated on one side with a quick building, permanent, opaque, acrylic pressure-sensitive adhesive with air-egress technology and supplied with a 98# polycoated liner. GV529BFD is designed for indoor or medium-term outdoor advertising and promotion applications on flat or simple curved surfaces.

Features and Benefits:

- 3.0-Mil gloss white PVC
- Eco-solvent, solvent-based and UV-cured ink jet printing
- Air-egress adhesive for faster application times
- Five year outdoor durability

Typical Uses:

- Flat or simple curved surfaces
- Indoor and outdoor signage
- Displays, tradeshow and P.O.P.

Use with:

- PERMACOLOR[®] RAYZor[™] - page 30
- PERMACOLOR LUV Series - page 33

Physical Properties	Typical Values
Peel Adhesion , lb./in. 180° on Stainless Steel	- 30 min. 2.9 - 24 hr 4.0
Quick Tack on SS , lb./in2	4.6
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 0.8
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -40° to 180°F (-40° to 82°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
GV529BFDW54	54" x 150'	40

IMAGin[®]
by MACtac[®]
V·E·R·D·E



IMAGin[®] Verde VM3209R is a 2.0-mil gloss clear scratch-resistant polyester designed for UV cured wide-format digital printing. 100% chlorine, phthalate, and vinyl-free, VM3209R is the right product for customers seeking more environmentally friendly products and superior graphics reproduction. VM3209R is supplied with an optically clear removable adhesive and a glass-smooth polyester release liner for indoor and outdoor signage on glass and other flat and slightly curved



Application: Display
Material: IMAGin Verde

Features and Benefits:

- 100% chlorine, phthalate and vinyl-free
- Topcoated especially for wide-format UV
- Scratch resistant
- Optically clear
- REACH compliant

Typical Uses:

- Indoor and outdoor window signage
- Point of purchase displays
- Flat and slightly curved surfaces

Physical Properties	Typical Values
Thickness , inches (µm) Film	2.0-mils
Peel Adhesion , lb./in. 180° on Glass	- 24 hr ≤0.7
Temperature Ranges Minimum Application: End Use:	40°F (+5°C) -40° to 212°F (-40° to 100°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
VM3209W60L164	60" x 164'	52

IMAGin[®]
by MACtac[®]
PrintVinyl



JT828P/JT829P are 3.9-mil matte/gloss white, soft-calendered PVC films designed for solvent-based and latex ink jet printing. These products are coated on one side with a clear permanent, acrylic pressure-sensitive adhesive and supplied with a 74# Kraft liner. JT828P/JT829P are designed for general purpose indoor and outdoor advertising and promotion on flat or slightly curved surfaces.



Application: Outdoor Signage
Material: IMAGin[®] JT829P

Features and Benefits:

- 3.1-Mil matte white vinyl film - JT828P
- 3.1-Mil gloss white vinyl film - JT829P
- Up to four year outdoor durability
- Permanent, clear, acrylic adhesive

Typical Uses:

- General purpose indoor signage
- Outdoor advertising and promotion on flat or slightly curved surfaces

Use with:

- PERMACOLOR[®] LUV Series - page 33
- PERMACOLOR PromoGard PG7000 Series Laminates - page 35

Physical Properties	Typical Values
Peel Adhesion , lb./in. 180° on Glass	- 24 hr 3.4-5.2
Quick Tack on SS , lb./in2	2.5-3.9
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 1.0
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) -5° to 158°F (-20° to 70°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Stock No.	Roll Width x Length	Weight: Pounds
JT828P	JT829P		
JL828P*	JL829P*	30" x 164'	25
JQ828P	JQ829P	64" x 164'	50
JX828P	JX829P	54" x 164'	47

* 2 Roll Minimum

M Series

DIGITAL MEDIA



Application: Long-term indoor signage
Material: M Series



EMP328/EMP329 are 3.2-mil matte/gloss white, soft calendered PVC films designed for solvent-based ink jet printing. These products are coated on one side with a **permanent**, opaque, acrylic pressure-sensitive adhesive and supplied with a 72# polycoated layflat liner. EMP328/EMP329 are designed for indoor or medium-term outdoor advertising and promotion on flat surfaces.

Features and Benefits:

- 3.2-Mil matte white vinyl - EMP328
- 3.2-Mil gloss white vinyl - EMP329
- Permanent, opaque acrylic adhesive
- 72# Polycoated layflat liner
- Four year outdoor durability

Typical Uses:

- Long-term indoor signage
- Billboards, intermediate-term outdoor graphics
- Decals

Use with:

- PERMACOLOR® LUV series page 33

Physical Properties	Typical Values	
Peel Adhesion , lb./in. 180° on Stainless Steel	- 30 min.	4.5
	- 24 hr	6.0
Quick Tack on SS , lb./in2	4.0	
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 1.0	
Temperature Ranges	Minimum Application:	50°F (+10°C)
	End Use:	-40° to 180°F (-40° to 82°C)
Shelf Life: Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.		

Stock No. EMP328	Stock No. EMP329	Roll Width x Length	Weight: Pounds
EMP328W30*	EMP329W30*	30" x 150'	17
EMP328W54	EMP329W54	54" x 150'	33
EMP328W60	EMP329W60	60" x 150'	37

M Series

DIGITAL MEDIA



Application: Medium-term signage
Material: M Series



EMR328/EMR329 are 3.2-mil matte/gloss white, soft calendered PVC films designed for solvent-based ink jet printing. These products are coated on one side with a **removable**, opaque, acrylic pressure-sensitive adhesive and supplied with a 72# polycoated layflat liner. EMR328/EMR329 are designed for indoor or medium-term outdoor advertising and promotion on flat surfaces.

Features and Benefits:

- 3.2-Mil matte white vinyl - EMR328
- 3.2-Mil gloss white vinyl - EMR329
- Removable, opaque acrylic adhesive
- 72# Polycoated layflat liner
- Four year outdoor durability
- UL Recognized

Typical Uses:

- Medium-term indoor signage
- Decals
- Floor Graphics

Use with:

- PermaFlex® IP6200 & PF6300* pgs 27
- PERMACOLOR Enhancers - page 31
- PERMACOLOR® LUV series page 33

Physical Properties	Typical Values	
Peel Adhesion , lb./in. 180° on Stainless Steel	- 30 min.	1.5
	- 24 hr	2.5
Quick Tack on SS , lb./in2	1.8	
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 1.0	
Temperature Ranges	Minimum Application:	50°F (+10°C)
	End Use:	-40° to 180°F (-40° to 82°C)
Shelf Life: Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.		

Stock No. EMR328	Stock No. EMR329	Roll Width x Length	Weight: Pounds
EMR328W30*	EMR329W30*	30" x 150'	17
EMR328W54	EMR329W54	54" x 150'	33
EMR328W60	EMR329W60	60" x 150'	37

* Meets OSHA Standards for slip resistance, recommended for dry floors, wet surfaces & handicap accessible routes. See Performance Guides for more information.

* 2 Roll Minimum

**IMAGin[®] deco
satin[™]**
by MACtac[®]



Application: Trade Show Graphics
Material: IMAGin DecoSatin



IMAGin[®] DecoSatin[™] DA012 is a white satin fabric topcoated for solvent, UV, and latex wide-format printing. Coated on one side with a repositionable removable adhesive and supplied with an 86# polycoated paper liner, DecoSatin is ideal for wall coverings and graphics for retail, offices, and hotel. DecoSatin meets ANSI/FPA – Class A and IBC – Class A Specifications.

Features and Benefits:

- DecoSatin meets ANSI/FPA – Class A and IBC – Class A Specifications
- Repositionable for easy installation
- No steam or wallpaper “claws” required for removal
- Bright white face and specially designed topcoat produce vibrant graphics

Typical Uses:

- Wall Murals for retail, offices, hotels
- Wall graphics
- Point-of-Purchase

Tip:

- Lamination is NOT recommended

Physical Properties	Typical Values	
Peel Adhesion , lb./in. 180° on Glass	- 24 hr	1.1
Quick Tack on Glass , lb./in2 (N/25mm)		2.3
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)		0.2
Temperature Ranges Minimum Application: End Use:		50°F (+10°C) -5° to 160°F (-20° to 70°C)
Shelf Life: Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.		

Stock No.	Roll Width x Length	Weight: Pounds
DA012W54L150	54" x 150'	55

StreetRap[™]
CONCRETE FLOOR GRAPHICS



Application: Concrete Graphic
Material: StreetRap



IMAGin StreetRap[™] is a 3.4-mil matte white vinyl with an aggressive high-tack adhesive and 90# SuperFlat[™] Liner. It's designed for short-term application to unsealed, indoor or outdoor, pedestrian concrete or asphalt surfaces or selected smooth to slightly rough wall surfaces.

Features and Benefits:

- Great adhesion to unsealed concrete or asphalt surfaces
- Eco-solvent, solvent, UV ink jet latex and screen printable
- Matte facestock provides superior printability

Typical Uses:

- Retail outlets
- Trade shows
- Sports venues
- Convention Centers

Use with:

- PermaFlex[®] PF6300* - page 27

Physical Properties	Typical Values	
Peel Adhesion , lb./in. 180° on Stainless Steel	- 30 min - 24 hr	7.0 8.0
Quick Tack on SS , lb./in2		7.5
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)		max 0.05
Temperature Ranges Minimum Application: End Use:		50°F (+10°C) -50° to 225°F (-45° to 107°C)

Shelf Life:
Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
STR328W54	54" x 150'	45
STR328L100	54" x 100'	40

* Meets OSHA Standards for slip resistance, recommended for dry floors, wet surfaces & handicap accessible routes. See Performance Guides for more information.



SHORT TERM WALL MEDIA



Application: Wall Graphics
Material: wallNOODLE



wallNOODLE® is a 6.0-mil matte white, semi-rigid calendered PVC film designed for UV screen, and solvent-based ink jet printing. The product is coated on one side with a removable and repositionable acrylic pressure-sensitive adhesive and supplied with a 90# SuperFlat™ liner. wallNOODLE is designed for short-term (6 months to one year) indoor wall graphics on smooth, flat surfaces.

Features and Benefits:

- 6.0-Mil matte white semi-rigid facestock
- Easily applied and removed from most interior wall surfaces
- Reusable
- Matte facestock provides superior printability
- Available on 6" cores

Typical Uses:

- Short-term (six months to one year) indoor wall graphics
- Designed for smooth, flat surfaces

Tip:

- Lamination is NOT recommended.
Print to edge only with latex and offset inks.

Physical Properties	Typical Values	
Peel Adhesion, lb./in. 180° on Stainless Steel	- 24 hr	0.85
Quick Tack on SS, lb./in2		0.80
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)	MD	0.40
	CD	0.20
Temperature Ranges		
Minimum Application:		50°F (+10°C)
End Use:		-20° to 158°F (-6° to 70°C)
Shelf Life: Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.		

Stock No.	Roll Width x Length	Weight: Pounds
WN628W54	54" x 100'	44
Custom Sizes		
WN628W546SL	54" x up to 750'	na
WN62738	27" x 38" Sheets	40



PERMANENT MEDIA



Permanent wallNOODLE® is a 6.0-mil matte white vinyl designed for solvent, UV and latex wide-format printing, as well as screen and offset printing. Permanent NOODLE is ideal for indoor and outdoor wall graphics, decals, signage, and barriers. Three year unprinted outdoor durability.

Features and Benefits:

- 6.0-Mil matte white semi-rigid facestock
- Thick face is easy to install, even without a laminate
- Designed for smooth, flat surfaces
- Meets the flame spread and smoke density specifications for ANSI/NFPA – Class A and IBC – Class A

Typical Uses:

- Wall graphics
- Signage
- Decals
- Barrier graphics

Use with:

- PERMACOLOR LUV Series - page 33
- PERMACOLOR PromoGard PG7000 - pg 35, if desired.

Physical Properties	Typical Values	
Peel Adhesion, lb./in. 180° on Stainless Steel	- 24 hr	5.3
Quick Tack on SS, lb./in2		2.3
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)	MD	0.20
	CD	0.10
Temperature Ranges		
Minimum Application:		-40°F (-40°C)
End Use:		-40° to 180°F (-40° to 82°C)
Shelf Life: Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.		

Stock No.	Roll Width x Length	Weight: Pounds
PN628W54L100	54" x 100'	45

ROODLE™



Application: Wall Graphics
Material: ROODLE™

NEW!
3 yr
MATTE finish
Removable

IMAGin® ROODLE™ RO628 is a 6.0-mil matte white vinyl designed for solvent, eco-solvent, latex, and UV wide-format, as well as for screen printing. Designed for tileable wall graphics, posters, decals and bumper stickers, RO628 is supplied on a 90# SuperFlat™ polycoated release liner for moisture stability regardless of print method.

Features and Benefits:

- ROODLE meets the flame spread and smoke density specifications for ANSI/NFPA – Class A and IBC – Class A.
- Thick face makes ROODLE easy to install, even without a laminate
- Removable for up to two years from most well maintained substrates

Typical Uses:

- Wall murals
- Decals
- Point of purchase displays

Use with:

- PERMACOLOR® LUV Series - page 33
- PERMACOLOR PromoGard PG7000 Series - page 35

Physical Properties		Typical Values
Peel Adhesion , lb./in. 180° on Stainless Steel	- 24 hr	2.1
Quick Tack on SS , lb./in2		2.1
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)		
	MD	0.40
	CD	0.20
Temperature Ranges		
Minimum Application:		50°F (+10°C)
End Use:		-40° to 180°F (-40° to 82°C)
Shelf Life: Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.		

Stock No.	Roll Width x Length	Weight: Pounds
RO628W54L100	54" x 100'	45

ROUGH RAP™
WALL WRAP GRAPHICS



Application: Wall Graphics
Material: IMAGin® Digital Media for Wall Wrap

18 month
HIGH GLOSS finish
TEXTURED surface
Permanent

IMAGin RoughRAP™ is a 2.1-mil soft white gloss, highly conformable PVC film designed for solvent-based ink jet printing. The product is coated on one side with a high-tack, permanent, opaque acrylic adhesive. RoughRAP is specifically designed for direct application onto exterior and interior brick walls for a painted on look. Use of an overlamine will extend the life of the graphic and allow for easier handling during installation.

Features and Benefits:

- 2.1-Mil highly conformable vinyl face
- High-tack, permanent adhesive
- 80# polycoated liner for excellent printability and layflat
- Superior print quality for vibrant images

Typical Uses:

- Exterior and interior brick walls

Use with:

- PERMACOLOR® RAYZor™ - page 30

Physical Properties		Typical Values
Peel Adhesion , lb./in. 180° on Stainless Steel	- 24 hr	3.2-5.0
Quick Tack on SS , lb./in2		4.8-6.2
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)		
		max 0.5
Temperature Ranges		
Minimum Application:		50°F (+10°C)
End Use:		-4° to 160°F (-20° to 70°C)

Shelf Life:
Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
WW100	54" x 82'	24
WW100W54L150	54" x 150'	40

IMAGin[®]
by MACtac[®]
digitrans



Application: Bus Graphics
Material: IMAGin[®] digiTrans



JDT429 is a 4.0-mil soft white gloss, calendered PVC film designed for solvent-based ink jet printing. The product is coated on one side with a semi-permanent, black opaque, acrylic pressure-sensitive adhesive and supplied with a 74# Kraft liner. JDT429 is designed for short-term outdoor mobile advertising on flat to slightly curved surfaces. It is ideal for public transportation vehicles such as busses, taxis and subway trains.

Features and Benefits:

- 4.0-Mil gloss white vinyl
- Semi-permanent, black opaque, acrylic pressure-sensitive adhesive
- Three year durability
- Available on 6" core
- CBS approved

Typical Uses:

- Bus, taxi, subway train applications
- Station domination programs
- Applications needing a true blackout adhesive

Use with:

- PERMACOLOR LUV Series - page 33

Physical Properties	Typical Values	
Peel Adhesion , lb./in. 180° on Glass	- 20 min. - 24 hr	0.95-1.8 2.1-3.0
Quick Tack on SS , lb./in ²	0.95-1.8	
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 0.2	
Temperature Ranges Minimum Application: End Use:	46°F (8°C) -4° to 158°F (-20° to 70°C)	
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.	

Stock No.	Roll Width x Length	Weight: Pounds
JDT429W64	64" x 164'	50
JDT429W54	54" x 164'	47
JDT429W546	54" x 328'	94
JDT429W30*	30" x 164'	25
* 2 Roll minimum		



Application: Transit Graphics
Material: IMAGin[®] JT5916 window perf



JT5916P is an 8.0-mil soft white vinyl film with black reverse side and 50% perforated with a 1.5 mm hole diameter for one-way visibility. The product is coated on one side with a semi-permanent, clear, acrylic pressure-sensitive adhesive and supplied with a 7-mil film release liner with a clear back laminate. JT5916P is designed for solvent based, ink jet printing for window graphics viewed from one side and "see-through" from the other side.

Features and Benefits:

- 50/50 hole to printable media ratio
- Semi-permanent adhesive
- Three year outdoor durability

Typical Uses:

- Transit and vehicle
- Storefront advertising

Use with:

- PERMACOLOR[®] RAYZor[™] Gloss LF3640 with Polyester liner only - pg 30

Physical Properties	Typical Values	
Peel Adhesion , lb./in. 180° on Glass	- 24 hr	0.23-1.10
Quick Tack on Glass , lb./in ²	0.6-0.17	
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 0.2	
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) 0° to 140°F (-15° to 60°C)	
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.	

Stock No.	Roll Width x Length	Weight: Pounds
JX5916P	54" x 100'	47



Application: Vehicle Graphics
Material: IMAGin[®] WP129 window perf



IMAGin[®] WP129 is a promotional 6.0-mil soft white vinyl film with black reverse side and 41% perforated with a 1.6 mm hole diameter for one-way visibility. The product is coated on one side with a semi-permanent, clear, acrylic pressure-sensitive adhesive and supplied with an 86# white Kraft liner. WP129 is designed for solvent based, ink jet printing for window graphics viewed from one side and "see-through" from the other side.

Features and Benefits:

- 41/59 Hole to printable media ratio
- Semi-permanent adhesive
- One year outdoor durability

Typical Uses:

- Transit and vehicle
- Storefront advertising

Use with:

- PERMACOLOR RAYZor Gloss LF3640 with polyester liner only - pg 30

Physical Properties	Typical Values
Peel Adhesion , lb./in. 180° on Stainless Steel	- 24 hr 1.0-2.0
Quick Tack on Glass , lb./in ²	1.4-2.3
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C)	max 0.2
Temperature Ranges Minimum Application: End Use:	50°F (+10°C) 0° to 140°F (-17° to 60°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Weight: Pounds
WP129W54L164	54" x 164'	77

PERMACOLOR® ...because your image is everything.

Choose **PERMACOLOR** films from MACtac® - the most complete line of mounting and laminating products designed to protect graphic images while enhancing their appearance. **PERMACOLOR** films are ideal for use with photographic, ink jet, electrostatic, lithographic and screen-printed images.

PERMACOLOR films are available in a variety of finishes to suit any application need and a variety of sizes, so even the smallest image can be protected.

Most **PERMACOLOR** films offer an aggressive pH-neutral adhesive and are compatible with sensitive paper substrates.

Both pressure-sensitive and thermal films can be applied with industry standard laminators.



Application: Laminator
Material: PERMACOLOR Overlaminates

Features:

- Wide variety of finishes (high-gloss, gloss, semi-gloss, matte, semi-matte, lustre)
- Line of tough laminates for rollable graphics
- Optically-clear films for enhanced photo clarity and color vibrancy
- Specifically designed for protection of digital images
- Wide variety of thicknesses for easy handling and display
- Cast vinyl for ultra conformable applications

Benefits:

- Uniform appearance across a broad range of substrates
- Indoor and outdoor versatility
- Superior UV protection for long-lasting prints
- UL classified products for flame spread
- Compatible with cold roll and thermal laminators
- Outstanding image protection
- Thermal laminates can be used on water-based ink jet prints
- pH-neutral adhesive

PermaPrint® High-Performance Mounting Films

PermaFlex® High-Performance Rigid PS Overlaminates

PermaGard® High-Performance Clear PS Overlaminates

PermaTrans® Intermediate Mounting Films

PERMACOLOR PromoGard Short-Term Digital PS Overlaminates

PERMACOLOR®

Overlaminates & Mounting Films



Product Series	Description	Window	Indoor Floor	P.O.P./ Indoor	Trade Show	Full & Partial Fleet Wraps	Full & Partial Vehicle Wraps
High-Performance Overlaminates							
PermaFlex® - IP6000 Lustex® 15	15.0-mil polycarbonate film overlaminate		✓		✓		
PermaFlex - IP6100 Lustex 10	10.0-mil polycarbonate film overlaminate		✓		✓		
PermaFlex - IP6200 Lustex 5	5.0-mil polycarbonate film overlaminate		✓		✓		
PermaFlex - PF6300	5.0-mil clear, textured lustre vinyl film overlaminate		✓		✓		
PermaGard® - PG7036	2.0-mil gloss polyester film overlaminate	✓		✓	✓		
PermaGard - PG7285	3.2-mil matte vinyl film overlaminate			✓	✓		
PermaGard - PG7284	3.2-mil lustre vinyl film overlaminate			✓	✓		
PermaGard - PG7034	1.2-mil gloss, polypropylene overlaminate			Dry Erase			
PERMACOLOR® RAYZor® - LF3640	1.5-mil clear, gloss, highly conformable cast PVC film	✓	✓			✓	✓
PERMACOLOR RAYZor - LF3640G	1.5-mil clear, gloss, highly conformable cast PVC film		✓			✓	✓
PERMACOLOR RAYZor - LF3630G	1.5-mil clear, matte, highly conformable cast PVC film					✓	✓
PERMACOLOR HORIZon™ - XL1000	1.5-mil clear, high-gloss polyurethane film					✓	✓
PERMACOLOR® Enhancers	2.5-mil Brilliant Crystal, 3.0-mil Silver Metallic			✓	✓	Partial	Partial
Intermediate Overlaminates							
PERMACOLOR LUV	3.0-mil gloss vinyl overlaminate			✓	✓		
PERMACOLOR LUV	3.2-mil matte vinyl overlaminate			✓	✓		
PERMACOLOR LUV	3.2-mil lustre vinyl overlaminate			✓	✓		
PERMACOLOR PromoGard PG7000	3.0-mil gloss/matte/lustre vinyl overlaminates			✓	✓		
PermaFlex - PF6400	3.75-mil gloss, textured polyolefin film		✓	✓	✓		
PermaFlex - PF6500 Textured	4.3-mil textured vinyl		✓	✓	✓		
Intermediate & High-Performance Mounting Films							
PermaPrint® - IP5000	Mounting Film Opaque, double-coated			✓	✓		
PermaTrans® - PT2100	Mounting Film Optically clear, double-coated	✓		✓	✓		
PermaPrint® - PP2011	Mounting Film Clear, double-coated			✓	✓		
PermaPrint - PP2013	Mounting Film Clear, double-coated			✓	✓		
PermaPrint - PP2018	Mounting Film Clear, double-coated			✓	✓		
ColorTrans - CT2200	Optically clear, permanent/removable mounting film	✓		✓	✓		
PERMACOLOR GEMINI XT - PP5000	Mounting Film Opaque, double-coated			✓	✓		
PERMACOLOR GEMINI XT - PP5600	Mounting Film, Clear, double-coated			✓	✓		



Boats	Museum	Light Box	Bus	Untreated Concrete	Walls	Adhesive Liner / Durability	RECOMMENDED INK JET MEDIA	B-free 5500 PRO, Gruv 929	B-free Gruv 729	IMAGin 5800, M Series, Gruv 529	IMAGin PrintVinyl	IMAGin RoughRAP™	IMAGin StreetRap™
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						Permanent, clear acrylic 3.0-mil PET / 3-5 yrs indoor		✓					
	✓					Permanent, clear acrylic 1.5-mil PET / 3-5 yrs indoor		✓					
	✓				✓	Permanent, clear acrylic 1.5-mil PET / 3-5 yrs indoor		✓					
	✓			✓	✓	Permanent, clear acrylic 60# Yellow glassine/ 3 yr outdoor	✓	✓	✓				✓
	✓					Permanent, clear acrylic 1.5-mil PET / 3-5 yrs outdoor		✓	✓				Wall
	✓				✓	Permanent, clear acrylic 60# White kraft / 3-5 yrs outdoor		✓	✓				Wall
	✓				✓	Permanent, clear acrylic 60# White kraft / 3-5 yrs outdoor		✓	✓				Wall
					✓	Permanent, clear acrylic 1.5-mil PET / 2 yr indoor		✓	✓				Wall
✓			✓		Walls	✓	Permanent, clear acrylic 1.2-mil PET / 5 yrs out & 8 yrs indoor	✓	✓			✓	
✓			✓		Walls	✓	Permanent, clear acrylic 50# Calendered paper / 5 yrs out & 8 yrs in	✓	✓			✓	
✓					Walls	✓	Permanent, clear acrylic 1.2-mil PET or 50# Calendered paper 5 yrs out & indoor	✓	✓			✓	
✓			✓			✓	Permanent, clear solvent acrylic, 50# liner / 5-8 yrs vertical, 3-5 yrs horizontal surfaces	✓					
✓							Clear solvent acrylic 78# White kraft / 5 yr	✓	✓	✓	✓		
			✓		✓	Permanent, clear acrylic 46# Clay-coated Kraft / 4 yr				✓	✓		Wall
			✓		✓	Permanent, clear acrylic 46# Clay-coated Kraft / 4 yr				✓	✓		Wall
			✓		✓	Permanent, clear acrylic 46# Clay-coated Kraft / 4 yr				✓	✓		Wall
							Permanent, Clear acrylic 40# Calendered Paper / 2 yr outdoor				✓		
	✓					✓	Permanent, clear acrylic 50# Calendered paper/ 1 month indoor floor, 1 yr indoor wall		✓	✓			
	✓					✓	50# White kraft / 3 yr outdoor		✓	✓	✓		Wall
	✓						Permanent, opaque acrylic 92# PolyCoated / 3-5 yrs indoor						
	✓	✓					Permanent, double-coated clear acrylic 1.5-mil PET / 3 yrs outdoor						
	✓						Permanent, clear acrylic 60# Glassine / 3-5 yrs indoor						
							Permanent, rubber 60# Glassine / 3-5 yrs indoor						
	✓						Permanent, acrylic White Kraft / 3-5 yrs indoor						
	✓	✓					Permanent/removable clear acrylic 1.5-mil PET / up to 6 month removability						
							Permanent/aggressive opaque rubber-based						
							Permanent/clear rubber-based						

PermaFlex®



Application: Museum Display
Material: PERMACOLOR® IP5000



IP6000 Lustex® 15 is a 15-mil polycarbonate film with a special “Lustex” surface. The low gloss texture helps eliminate glare and provides a very unique and pleasing viewing surface. This product can be used as an overlaminate for indoor as well as outdoor applications. IP6000

not only provides protection from abrasion and moisture, it also helps retard color fade caused by ultraviolet (UV) light exposure.

Features and Benefits:

- 15.0-Mil textured lustre finish polycarbonate
- Eliminates glare
- **UL Listed** for wall covering flame resistance.

Typical Uses:

- Trade show displays
- Counter mats

Physical Properties	Typical Values
Thickness , inches (micron) Film plus adhesive	0.0165 (419)
White Light Transmission , % (Note: Glass =100)	92
Gloss, (60° angle)	12
Adhesive PH	Neutral
Co-efficient of Expansion	1.7 X10-5 in/in/°C
Temperature Ranges	
Application:	Above 50° F (10°C) for best results
End Use:	-20° to 200° F (-29° to 93°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
IP6002	51" x 150'	93
IP600275	51" x 75'	51
IP6007	37" x 150'	69
IP600775	37" x 75'	39
IP6003	31" x 150'	59

(wound on 6" I.D. cores with adapters for 3")

PermaFlex®

Tips

These optically-clear overlaminating films enhance photos and transparencies, ink jet, lithographic and screen printed images. They also protect against abrasion, moisture and other potentially damaging effects in both indoor and outdoor environments, including color fading caused by prolonged exposure to UV light. Available in a wide variety of finishes.

Prior to rolling graphics allow a 2-4 hour wet-out period for the adhesive system to build a strong bond.



IP6100 Lustex® 10 is a 10-mil polycarbonate film with a special “Lustex” surface. The low gloss texture helps eliminate glare and provides a very unique and pleasing viewing surface. This product can be used as an overlaminate for indoor as well as outdoor applications. IP6000 not only provides protection from abrasion and moisture, it also helps retard color fade caused by ultraviolet (UV) light exposure.

not only provides protection from abrasion and moisture, it also helps retard color fade caused by ultraviolet (UV) light exposure.

Features and Benefits:

- 10-Mil textured lustre finish polycarbonate
- Exceeds industry standards for slip resistance
- Rigid laminate for easy rolling and shipping
- **UL Listed** for wall covering flame resistance.

Typical Uses:

- Trade show displays
- Mouse pads
- Floor graphics
- Counter mats

Physical Properties	Typical Values
Thickness , inches (micron) Film plus adhesive	0.0115 (292)
White Light Transmission , % (Note: Glass =100)	92
Gloss, (60° angle)	13
Adhesive PH	Neutral
Co-efficient of Expansion	1.7 X10-5 in/in/°C
Temperature Ranges	
Application:	Above 50° F (10°C) for best results
End Use:	-20° to 200° F (-29° to 93°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
IP6102	51" x 150'	69
IP6107	37" x 150'	50

(wound on 6" I.D. cores with adapters for 3")

PermaFlex®

More Tips

If total graphic is less than 10-mil in thickness the inside diameter of a rolled graphic should be 3-5 inches minimum. Graphics with total thickness of 10-mils or greater should have an inside diameter of 10-12 inches.

Single-sided laminated images should be rolled laminated side in for shipping and storage. Double-side laminated images should be rolled thickest laminate in for shipping and storage.



IP6200 Lustex 5 is a 5.0-mil polycarbonate film with a special "Lustex" surface. The low-gloss texture helps eliminate glare and provides a very unique and pleasing viewing surface. This product can be used as an overlaminate for indoor as well as outdoor applications.

IP6200 not only provides protection from abrasion and moisture, it also helps retard color fade caused by ultraviolet (UV) light exposure.

Features and Benefits:

- Exceeds industry standards for slip resistance
- **UL Listed** for wall covering flame resistance.

Typical Uses:

- Floor graphics
- Trade show headers
- Mouse pads

Physical Properties	Typical Values
Thickness , inches (micron) Film plus adhesive	0.0065 (165)
White Light Transmission , % (Note: Glass =100)	92
Gloss, (60° angle)	15
Adhesive PH	Neutral
Co-efficient of Expansion	1.7 X10-5 in/in/°C
Temperature Ranges	
Application:	Above 50° F (10°C) for best results
End Use:	-20° to 200° F (-29° to 93°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
IP6202	51" x 150'	41
IP6207	37" x 150'	30
IP6204	21" x 150'	18

PermaFlex®



Application: Wall Graphics
Material: PERMACOLOR® PF6300



PF6300 is a 5.0-mil clear vinyl film with a textured lustre finish that helps to eliminate glare and provides a very unique and pleasing viewing surface. This product can be used as an overlaminate for indoor as well as outdoor applications.

PF6300 not only provides protection from abrasion and moisture, it also helps retard color fade caused by ultraviolet (UV) light exposure.

Features and Benefits:

- Thin enough for retractable banners yet durable enough for floor graphics

Typical Uses:

- Floor graphics
- Trade show displays
- Retractable banners

Physical Properties	Typical Values
Thickness , inches (micron) Film plus adhesive	0.00591 (150)
Quick Tack on Glass , lb./in2 (N/25mm)	5.0 (22)
Peel Adhesion , lb/in. (N/25 mm) Glass - 20 min.	5.0 (22) - 24 hr 5.5 (24)
Adhesive PH	Neutral
Temperature Ranges	
Application:	32° to 120° F (0° to 49°C) for best results
End Use:	-22° to 140° F (-29° to 60°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
PF6354L100	54" x 100'	30
PF6315	53.9" x 164'	40
PF6314	40.9" x 164'	35

PermaGard®



Application: Photographic Lamination
Material: PERMACOLOR PermaGard®



PG7036 Gloss is a clear polyester film coated on one side with a clear acrylic pressure-sensitive adhesive. A clear polyester release liner that provides

complete visual inspection of the product, easy liner removal and distortion-free adhesive surface protects the adhesive.

PG7036 not only provides protection from abrasion and moisture, it also helps retard color fade caused by ultraviolet (UV) light exposure.

Features and Benefits:

- Gloss finish enhances photos to make colors more vibrant and true
- UV inhibitors help reduce color face
- Clear liner allows for an ultra smooth adhesive surface

Typical Uses:

- Lamination of photographic and digital images to enhance color and provide image protection

Physical Properties	Typical Values
Thickness , inches (micron)	
Film plus adhesive	0.0035 (88.8)
Total product	0.005 (127)
Quick Tack on SS , lb./in2 (N/25mm)	2.5 (11)
Shear , hours to fail - Stainless Steel	150
Peel Adhesion , lb/in. (N/25 mm)	
Stainless Steel - 30 min.	3.5 (15.5)
- 24 hr	4.5 (19.5)
White Light Transmission , %	98 (Note: Glass=100)
Gloss (60° angle)	100
Adhesive PH	Neutral
Temperature Ranges	
Application:	Above 50° F (10°C) for best results
End Use:	-20° to 200° F (-29° to 93°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
PG7036W60L164	60.5" x 164'	33
PG7036W54L164	54" x 164'	34
PG7036W51L328	51" x 328'	63
PG7036W51L164	51" x 164'	32
PG7036W41L164	41" x 164'	25

PermaGard®



PG7285 Matte is a vinyl film coated on one side with a clear acrylic pressure-sensitive adhesive. An easily removed white paper liner protects the

adhesive. PG7285 provides a uniform, matte surface that protects from abrasion, moisture and other potentially

damaging effects. It also helps retard color fade caused by ultraviolet (UV) light exposure.

Features and Benefits:

- Ultimate matte finish controls glare without taking away from appearance of the graphic
- UV inhibitors protect image from color fade

Typical Uses:

- Museum graphics
- Trade show displays
- Retail displays

Physical Properties	Typical Values
Thickness , inches (micron)	
Film plus adhesive	0.0047 (119)
Total product	0.0097 (246)
Quick Tack on SS , lb./in2 (N/25mm)	2.8 (12.5)
Shear , hours to fail - Stainless Steel	150
Peel Adhesion , lb/in. (N/25 mm)	
Stainless Steel - 30 min.	4.0 (17.5)
White Light Transmission , %	90 (Note: Glass=100)
Adhesive PH	Neutral
Temperature Ranges	
Application:	Above 50° F (10°C) for best results
End Use:	-20° to 150° F (-29° to 66°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
PG7285W60L164	60" x 164'	33
PG7285W54L164	54" x 164'	34
PG7285W51L328	51" x 328'	63
PG7285W51L164	51" x 164'	32
PG7285W41L164	41" x 164'	25

Tip

Cleaning instructions for clear PS overlaminates:

- 1) Use a clean, soft, lint-free cloth.
- 2) Use standard glass cleaner (Windex™, Glass Plus™, etc.).
- 3) Spray the cleaner onto the cloth, NOT onto the image. Do not over saturate the cloth.
- 4) Wipe down the image with the wet cloth.
- 5) Dry with a clean, soft, dry cloth.
- 6) If the edges of the image are not sealed, take care not to introduce cleaner to the adhesive. Over time, edge lifting will occur (MACTac recommends you always seal the edges of a graphic during the finishing process).

When cleaning PG7034 or rigid PS overlaminates (IP6000, IP6100, IP6200 and PF6300) please refer to MACTac TA2063.

PermaGard®



Application: Fine art lamination
Material: PERMACOLOR® PermaGard®



PG7284 Lustre is a vinyl film coated on one side with a clear acrylic pressure-sensitive adhesive. An easily removed white paper liner protects the adhesive. PG7284 provides a uniform, lustre surface while protecting from abrasion, moisture and other potentially damaging effects. It also helps retard color fade caused by ultraviolet (UV) light exposure

Features and Benefits:

- Eliminates glare without reducing image clarity
- UV inhibitors protect image from color fade

Typical Uses:

- Museum graphics
- Retail graphics
- Trade show displays
- Fine art

Physical Properties	Typical Values
Thickness , inches (micron)	
Film plus adhesive	0.0038 (114)
Total product	0.053 (279)
Quick Tack on SS , lb./in2 (N/25mm)	2.8 (12.5)
Shear , hours to fail - Stainless Steel	150
Peel Adhesion , lb/in. (N/25 mm)	
Stainless Steel - 30 min.	4.0 (16)
Adhesive PH	Neutral
Temperature Ranges	
Application:	Above 50° F (10°C) for best results
End Use:	-20° to 150° F (-29° to 66°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
PG7284W60L164	60" x 164'	33
PG7284W54L164	54" x 164'	34
PG7284W51L328	51" x 328'	63
PG7284W51L164	51" x 164'	32
PG7284W41L164	41" x 164'	25

PERMACOLOR®
RAYZor™
OVERLAMINATES



Application: Vehicle Wrap
Material: PERMACOLOR RAYZor Gloss



LF3640 PERMACOLOR® RAYZor™ Gloss is a 1.5-mil clear gloss; highly conformable cast PVC film. The product is coated on one side with a clear permanent, acrylic pressure-sensitive adhesive. LF3640G is designed for use with JT5929P, JT5928P and JT5529BFDPRO in long-term outdoor, marine, fleet or vehicle markings on flat, curved, corrugated and riveted surfaces. Additional UV protection is built into the over-laminating film to help extend the life of your graphic by resisting color fade caused by ultraviolet light. LF3648 with 1.2-mil polyester liner is recommended for use on window perf.

Features and Benefits:

- 1.5-Mil ultra conformable cast vinyl film
- Clear permanent acrylic adhesive
- Built-in UV protection
- Gloss finish
- Part of the B-free® application warranty

Typical Uses:

- Highly conformable for Vehicle Graphics, fleet, marine and textured wall graphics
- Image enhancement
- Marine graphics
- LF3648 with polyester liner used for perforated window film

Use with:

- IMAGin® B-free® JT5529BFD PRO - page 8
- B-free GRUV™ - pgs 8-9, 15
- IMAGin JT5916P & WP129 - pgs 21-22

Physical Properties	Typical Values
Peel Adhesion , lb/in. (N/25 mm)	
Stainless Steel	- 20 min. 3.0 (13.1) - 24 hr 3.7 (16.5)
Quick Tack SS , lb./in2 (N/25mm)	2.5 (11)
Dimensional Stability , (in.)	
48 hours@158°F	max 0.01
Temperature Ranges	
Application:	40° F (4°C) for best results
End Use:	-50° to 225° F (-45° to 107°C)
Shelf Life:	Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.

Stock No.	Roll Width x Length	Weight: Pounds
LF3649G	60" x 150'	34
LF3648	54" x 150'	30
LF3648G	54" x 150'	30
LF3642G*	30" x 150'	17

* 2 Roll minimum

PERMACOLOR®
RAYZor™
OVERLAMINATES



Application: Vehicle Wrap
Material: PERMACOLOR RAYZor Matte



LF3630 PERMACOLOR RAYZor Matte is a 1.5-mil clear matte; highly conformable cast PVC film. The product is coated on one side with a clear permanent, acrylic pressure-sensitive adhesive and supplied with a 50# release liner. LF3640 is designed for use with JT5929P, JT5928P, JT5529BFDPRO and WW100 in long-term outdoor, marine, fleet or vehicle markings on flat, curved, corrugated and riveted surfaces. Additional UV protection is built into the over-laminating film to help extend the life of your graphic by resisting color fade caused by ultraviolet light.

Features and Benefits:

- 1.5-Mil ultra conformable cast vinyl film
- Clear permanent acrylic adhesive
- Built-in UV protection
- Matte finish
- Part of the B-free application warranty

Typical Uses:

- Highly conformable for vehicle graphics, fleet, marine and rough wall graphics

Use with:

- IMAGin B-free JT5529BFD PRO - page 8
- B-free GRUV - pgs 8-9, 15
- RoughRAP™ WW100- pg 20

Physical Properties	Typical Values
Peel Adhesion , lb/in. (N/25 mm)	
Stainless Steel	- 20 min. 2.0 (8.7) - 24 hr 3.1 (13.2)
Quick Tack SS , lb./in2 (N/25mm)	2.5 (11)
Dimensional Stability , (in.)	
48 hours@158°F	max 0.01
Temperature Ranges	
Application:	58° F (10°C) for best results
End Use:	-50° to 225° F (-45° to 107°C)
Shelf Life:	Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.

Stock No.	Roll Width x Length	Weight: Pounds
LF3638G	54" x 150'	30
LF3639G	60" x 150'	34

PERMACOLOR®
Enhancers



Application: Vehicle Wrap
Material: PERMACOLOR® Enhancers



Application: Vehicle Wrap
Material: PERMACOLOR Enhancers



6300 Metallic Enhancers are premium 2.5-mil Brilliant Crystal and 3.0-mil Silver Metallic, cadmium-free clear cast vinyls with high-gloss and high concentration of light refracting additives for a glistening appearance on the

surface of your substrate or to use as an overlaminating film to greatly enhance your

high quality graphics. Coated with a high-performance permanent, clear solvent acrylic adhesive protected with 78# bleached white kraft liner for good stability and layflat.

Features and Benefits:

- 2.5 and 3.0-mil cast vinyl
- Permanent solvent acrylic adhesive
- Five year outdoor durability
- Two enhancers finishes

Typical Uses:

- Overlamine - flat, slightly curved applications
- Vehicle, fleet and marine graphics
- Colored vinyl enhancement
- General signage

Use with:

- IMAGin® B-free® JT5529BFD PRO - page 8
- B-free GRUV™ GV929 - page 8
- B-free GRUV GV729 - page 9

Physical Properties	Typical Values
Thickness , inches (µm)	
Crystal - Film plus adhesive	0.0037 (94)
Silver/Prism - Film plus adhesive	0.0042 (107)
Dimensional Stability (shrinkage) % 48 hours @ 158°F (70°C)	
Bonded aluminum	0.1
Peel Adhesion , lb/in. (N/25 mm)	
Stainless Steel - 30 min.	2.8 (12.7)
- 24 hr	4.0 (17.8)
Face Material Data , 68°F (20°C)	
Tensile strength lb./in. (N/m) Elongation %	>7.5 (13.00) >120%
Temperature Ranges	
Application:	40° to 104° F (5° to 40°C) for best results
End Use:	-50° to 225° F (-45° to 107°C)
Shelf Life:	Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.

Stock No.	Roll Width x Length	Weight: Pounds
Silver Metallic CY63980054	54" x 50'	14
Brilliant Crystal CY639801	60" x 150'	42
CY63980154	54" x 50'	14

PERMACOLOR®
HORIZON™



Application: Vehicle Partial Wrap
Material: PERMACOLOR® HORIZON™



XL1000 a 1.5-mil clear gloss; extremely conformable, extruded non-PVC film.

The product is coated on one side with a clear permanent, solvent acrylic pressure sensitive adhesive and supplied with a 50# paper release liner.

Features and Benefits:

- 2.5 and 3.0-mil cast vinyl
- Clear permanent solvent acrylic adhesive
- Up to 5-8 years on vertical surfaces and 3-6 years on horizontal surfaces

Typical Uses:

- Specially formulated to maintain clarity over the life of the wrap
- Help prevent color fading

Use with:

- IMAGin® B-free® JT5529BFD PRO - page 8
- B-free GRUV™ GV929 - page 8

Physical Properties	Typical Values
Thickness , inches (µm)	
Film plus adhesive	0.0025 (64)
Total product	0.0039 (100)
Peel Adhesion , lb/in. (N/25 mm)	
180° on Stainless Steel - 20 min.	3.3 (14.4)
- 24 hr	3.4 (14.9)
Quick Tack on SS , lb./in² (N/25mm)	3.0 (13.1)
Dimensional Stability , (in.)	
48 hours@158°F	<0.1
Temperature Ranges	
Min. Application:	40° (4°C) for best results
End Use:	-50° to 225° F (-45° to 107°C)
Gloss , (60°)	95 Typical
Shelf Life:	Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.

Stock No.	Roll Width x Length	Weight: Pounds
XL1000	54" x 150'	32

PermaGard®



Application: Dry Erase
Material: PermaGard® PG6000



PG6000 a 1.0-mil high-gloss polypropylene designed for use as a dry-erase overlaminate. With a clear acrylic adhesive and smooth polyester liner, PERMACOLOR PermaGard PG6000 can also add sparkle and protection to short-term indoor and outdoor signage and point-of-purchase graphics.

Features and Benefits:

- Gloss finish enhances appearance of the digital image
- UV inhibitors protect image from color fade
- Dry erase capabilities
- Short-term applications

Typical Uses:

- Menu boards
- Calendars
- White boards

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive Total product	0.0020 (51) 0.0032 (81)
Quick Tack on SS , lb./in2 (N/25mm)	1.5 (6.7)
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 15 min. 1.9 (8.2) -24 hr 2.5 (11)
Adhesive PH	Neutral
Temperature Ranges Application: Above 40° F (5°C) for best results End Use: -40° to 180° F (-40° to 82°C)	
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACtac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
PG6054L150	54" x 150'	18

PermaGard®



PG7034 Gloss is an economical, clear 1.0-mil polypropylene film coated on one side with a permanent clear acrylic pressure-sensitive adhesive, recommended for indoor and limited outdoor use. The film face allows for dry-erase capabilities. It also helps retard color fade caused by ultra violet (UV) light exposure. The adhesive is protected by a 1.2-mil Polyester

release liner that provides for easy liner removal and a near distortion-free adhesive surface.

Features and Benefits:

- Gloss finish enhances appearance of the digital image
- UV inhibitors protect image from color fade
- Dry erase capabilities

Typical Uses:

- Menu boards
- Courtroom graphics
- Classroom graphics

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive Total product	0.0022 (55) 0.0035 (91)
Quick Tack on SS , lb./in2 (N/25mm)	2.3 (10)
Shear , hours to fail - Stainless Steel	500
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 2.3 (10) -24 hr 2.5 (11)
Adhesive PH	Neutral
Temperature Ranges Application: Above 40° F (5°C) for best results End Use: -20° to 175° F (-29° to 80°C)	
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACtac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
PG0346	60.2" x 164'	42
PG0345	51.1" x 328'	37



Application: Retail Poster
Material: PERMACOLOR LUV



PERMACOLOR® LUV are vinyl overlaminating films coated on one side with clear acrylic pressure-sensitive adhesive. Proven performance for UV inks with a solvent acrylic adhesive. Recommended for indoor and outdoor applications, also helps reduce color face caused by UV light exposure.

Features and Benefits:

- Gloss, Matte and Lustre
- Four year outdoor durability
- Excellent adhesive wet-out for no silvering
- Suitable for UV, solvent, latex and eco-solvent printed graphics
- Protection against UV light, moisture and abrasion

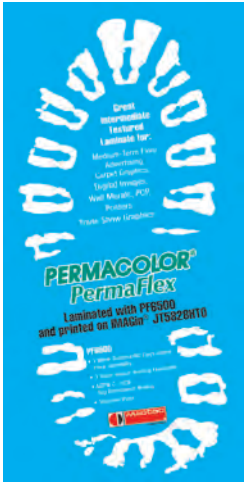
Typical Uses:

- General purpose lamination of digital images
- Murals and exhibits
- Event graphics
- Retail posters and displays

Use with:

Physical Properties	Typical Values
Thickness , inches (µm)	
Film plus adhesive	0.0038 (96)
Total product	0.0053 (134)
Quick Tack , lb./in2 (N/25mm)	
Stainless Steel	3.0 (13.2)
UV Ink Jet Print	1.2 (8.3)
Shear , hours to fail	
Stainless Steel - 1000g@ 72°F (22°C)	150
Peel Adhesion , lb/in. (N/25 mm)	
Stainless Steel - 30 min.	3.5 (15.3)
-24 hr	4.2 (18.4)
Adhesive PH	Neutral
Temperature Ranges	
Application:	Above 45° F (7°C) for best results
End Use:	-40° to 150° F (-10° to 66°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No. Gloss	Stock No. Matte	Stock No. Lustre	Roll Width x Length	Weight: Pounds
LUV8060W60L150	LUV8260W60L150	LUV8360W60L150	60.5" x 150'	37
LUV8054W54L150	LUV8254W54L150	LUV8354W54L150	54" x 150'	35
LUV8051W51L150	LUV8251W51L150	LUV8351W51L150	51" x 150'	33



PF6500 is a 5.3-mil vinyl film with a textured finish to enhance graphics. PF6500 is ideal for short-term indoor floor graphics and is rated for slip-resistance under ASTM C-1028. PF6500 not only provides protection from abrasion and moisture, but also helps retard color fade caused by exposure to ultraviolet (UV) light.

Features and Benefits:

- Tough, textured laminate for indoor and short-term outdoor walkway graphics
- Does not finger print

Typical Uses:

- Floor graphics
- Wall murals
- P.O.P. and trade show displays

Use with:

- IMAGin® JT5828R & JT5829R - page 13
- B-free® GRUV™ GV429R - page 15
- M Series - page 17
- IMAGin DigiTrans™ - page 21

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.0053 (135)
Quick Tack SS , lb./in2 (N/25mm)	2.3 (10)
180°Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 2.9 (13) - 24 hr 3.5 (16)
Adhesive PH	Neutral
Temperature Ranges Application:	40° to 120° F (5° to 50°C) for best results
End Use:	-50° to 225°F (-45° to 107°C)
Shelf Life:	Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACtac recommends the rolls be stored on end or suspended from the core.

Stock No.	Roll Width x Length	Weight: Pounds
PF6538	38" x 164'	38
PF6554L150	54" x 150'	47



PF6400 is a 3.75-mil Polyolefin film with a gloss textured finish to enhance graphics. PF6400 is ideal for short-term indoor floor graphics and is rated for slip-resistance under ASTM C-1028. PF6400 not only provides protection from abrasion and moisture, but also helps retard color fade caused by exposure to ultraviolet (UV) light.

Features and Benefits:

- Cost effective enough for short-term promotions
- Does not finger print

Typical Uses:

- Floor graphics
- Wall murals
- P.O.P. and trade show displays

Use with:

- IMAGin JT5828R & JT5829R - pgs 13
- B-free GRUV GV429R - page 15
- M Series - page 17
- IMAGin DigiTrans™ - page 21

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.047 (120)
180°Peel Adhesion , lb/in. (N/25 mm) Glass - 20 min.	- 24 hr 1.5 (6.5) 2.0 (8.7)
Adhesive PH	Neutral
Temperature Ranges Application:	50° to 100° F (10° to 38°C) for best results
End Use:	-40° to 180°F (-30° to 82°C)
Shelf Life:	Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACtac recommends the rolls be stored on end or suspended from the core.

Stock No.	Roll Width x Length	Weight: Pounds
PF6454	54" x 150'	34

Application: Floor Graphic
Material: PERMACOLOR® PF6400

PromoGard



PG7000 gloss, **PG7200** matte and **PG7300** lustre are promotional overlaminating films that can be laminated to digital images including solvent- and eco-solvent ink jet, and water-based ink jet prints for protection from abrasion, moisture and other potential damage in both indoor and outdoor environments. PG7000, PG7200 and PG7300 are coated on

one side with a clear acrylic pressure-sensitive adhesive and easily removed 40# liner.

Features and Benefits:

- Gloss finish - PG7000
- Matte finish - PG7200
- Lustre finish - PG7300
- Suitable for use over solvent, eco-solvent, UV and latex printed wide-format graphics
- Two year outdoor durability

Typical Uses:

- Protection of short-term indoor and outdoor graphics

Physical Properties	Typical Values
Thickness , inches (µm)	
Film plus adhesive	0.0040 (101)
Total product	0.0055 (139)
Quick Tack , lb./in ² (N/25mm)	
Stainless Steel	1.5 (6.5)
Gloss , (60° angle)	88
Peel Adhesion , lb/in. (N/25 mm)	
Stainless Steel	- 30 min. 2.5 (11) -24 hr 2.8 (12.25)
Adhesive PH	Neutral
Temperature Ranges	
Application:	Above 45° F (7°C) for best results
End Use:	-20° to 150° F (-30° to 66°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Stock No.	Stock No.	Roll Width	Weight:
PG7000	PG7200	PG7300	x Length	Pounds
PG7054	PG7254	PG7354	54" x 150'	48

PermaPrint®



Application: Museum signage
Material: PERMACOLOR® IP5000

More Tips

MACTac's pressure-sensitive mounting films are intended for "cold roll lamination" (40°-104°F).

The addition of heat while simultaneous mounting with thermal overlaminates may result in curl or have other detrimental effects on the finished product.

Whenever possible, always test first to ensure end-use capability.



IP5000 Series consists of a thin, opaque plastic film coated on both sides with an acrylic pressure-sensitive adhesive. Moisture stable, polycoated Kraft liner protects the adhesive.

Designed for quick adhesion to a variety of mounting surfaces. Single release liner permits easy lamination and eliminates the need to remove a second liner.

Features and Benefits:

- One paper release liner allows for fast lamination

Typical Uses:

- Mounting of images to black gator, Sintra and other difficult substrates

Physical Properties	Typical Values
Thickness , inches (µm) Carrier plus adhesive	0.0038 (90)
Quick Tack on SS , lb./in2	4.0 (17.5)
Shear , hours to fail - Stainless Steel	150
Peel Adhesion , lb/in. Stainless Steel	- 30 min. 4.5 (19) - 24 hr 5.0 (22)
Adhesive PH	Neutral
Temperature Ranges	
Application:	50° to 120° F (10° to 49°C) for best results
End Use:	-20° to 200° F (-29° to 93°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
IP5040	60.25" x 150'	33
IP5001	51" x 400'	64
IP5002	51" x 150'	29
IP5013	43" x 150'	23
IP5021	42" x 400'	52
IP5022	42" x 150'	22
IP5008	38" x 150'	21
IP5007	37" x 150'	20
IP5003	31" x 150'	18
IP5015	25" x 150'	15

PermaTrans®



Application: Exhibit Graphics
Material: PermaTrans® PT2100 Series



PT2100 Series is a thin, clear polyester film coated on both sides with a clear acrylic pressure-sensitive adhesive. Two clear polyester release liners protect the adhesive and permit complete visual inspection of the product and a distortion-free adhesive surface.

This optically-clear film, coated on two sides, was designed for face-mounting and back-mounting transparencies to Plexiglas® and other clear or transparent substrates. IP2100 helps protect mounted images from fading caused by ultra-violet (UV) light exposure.

Features and Benefits:

- Industry's best clarity
- UV inhibitors reduce color fade
- Aggressive solvent acrylic adhesive
- Clear liners for inspection of product before lamination

Typical Uses:

- Face mounting of images for backlit applications, transparencies and when super smoothness is required

Physical Properties	Typical Values
Thickness , inches (µm) Adhesive Total product	0.0035 (132) 0.0065 (190)
Quick Tack on SS , lb./in2	5.0 (22)
Shear , hours to fail - Stainless Steel	150
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 3.5 (13)
White Light Transmission , %	98
Adhesive PH	Neutral
Temperature Ranges	
Application:	50° to 120° F (10° to 49°C) for best results
End Use:	-20° to 200° F (-29° to 93°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
PT2160W60L328	60.5" x 328'	
PT2160W60L164	60.5" x 164'	
PT2101W51L328	51" x 328'	
PT21012W51L164	51" x 164'	
PT2122W41L164	41" x 164'	



CT2200 is an intermediate optically-clear adhesive mounting film engineered with a polyester carrier. It is coated on one side with an optically clear acrylic permanent adhesive and the other with an optically clear removable adhesive and supplied with two polyester release liners. Designed for face-mounting and back-mounting transparencies and graphics to Plexiglas™ and other clear or translucent substrates.

Features and Benefits:

- Optically-clear permanent/removable mounting film
- 100% Chlorine, vinyl and phthalate-free
- Non-water whitening for wet application

Typical Uses:

- Light boxes/backlits
- Removable indoor and outdoor window signage
- Point-of-purchase displays
- Flat and slightly curved surfaces

Physical Properties	Typical Values
Thickness , inches (µm) Carrier plus adhesive	0.0067
Quick Tack , lb./in ² Glass	Perm / Rem 2.8 / 2.5
Shear , hours to fail - Stainless Steel	
Peel Adhesion , lb/in. Stainless Steel	- permanent 4.0 - removable 1.2
Adhesive PH	Neutral
Temperature Ranges	
Application:	50° F (10°C) for best results
End Use:	-40° to 185° F (-40° to 85°C)
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
CT2241L150	41" x 150'	32
CT2251L150	51" x 150'	35
CT2254L150	54" x 150'	38
CT2261L150	61" x 150'	41

PermaPrint®



Application: Board Mounting
Material: PERMACOLOR® PP2011



PP2011 consists of a thin, clear polyester film coated on both sides with an acrylic pressure-sensitive adhesive. PP2011 is an economically designed mounting

product with medium-tack, medium peel adhesion and high cohesive strength for quick adhesion to a variety

of mounting surfaces and efficient processing through most roll laminators. White, moisture-stable, single release liner, protects the adhesive, permits easy lamination and eliminates the need to remove a second liner in applications where that may be difficult or impossible.

Features and Benefits:

- Low initial tack allows for easy fixing of mistakes
- One release liner for faster laminating

Typical Uses:

- General purpose mounting to substrates such as Fome-core®, Gator® board, Crescent® board, Masonite® and Sintra®

Physical Properties	Typical Values
Thickness , inches (µm) Carrier plus adhesive	0.0024 (60)
Quick Tack , lb./in2 Glass	side 1/side 2 2.1/3.0 (9/13)
Shear , hours to fail - Stainless Steel	>1000
Peel Adhesion , lb/in. Stainless Steel	- 30 min. 1.8/2.3 (8/10) - 24 hr 2.5/3.4 (11/15)
Adhesive PH	Neutral
Temperature Ranges	
Application:	40° to 120° F (5° to 49°C) for best results
End Use:	-20° to 212° F (-29° to 100°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACtac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
IP2013	79" x 164'	67
PP3316	60.2" x 328'	60
PP3315	51.1" x 328'	53
PP3314	40.9" x 328'	42

PermaPrint®



PP2013 consists of a thin, clear polyester film coated on both sides with a solvent-based, rubber pressure-sensitive adhesive. PP2013 is an economically designed mounting product with medium tack, medium peel adhesion and high cohesive strength for quick adhesion to a variety of mounting surfaces and efficient processing through most

roll laminators. White, moisture-stable, single release liner, protects the adhesive, permits easy lamination and eliminates the need to remove a second liner in applications where that may be difficult or impossible.

Features and Benefits:

- Good for low energy surfaces such as Sintra, plastic and styrene

Typical Uses:

- General purpose mounting of digital images

Physical Properties	Typical Values
Thickness , inches (µm) Carrier plus adhesive	0.0024 (60)
Quick Tack on SS , lb./in2 (N/25mm)	3.0 (13)
Shear , hours to fail - Stainless Steel	250
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 2.4 (11) - 24 hr 2.8 (12)
Adhesive PH	Neutral
Temperature Ranges	
Application:	50° to 104° F (10° to 40°C) for best results
End Use:	-20° to 195° F (-29° to 90°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACtac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
PP3516	60.2" x 328'	60
PP3515	51.1" x 328'	53
PP3514	40.9" x 328'	42

PermaPrint®



PP2018 is an economical general purpose mounting film consisting of a thin, clear polyester film coated on both sides with an acrylic permanent pressure-sensitive adhesive. A white, moisture-stable, single release liner, protects the adhesive, permits easy lamination and eliminates the need to remove a second liner

in applications where that may be difficult or impossible.

Features and Benefits:

- Economical for general purpose mounting
- Clear permanent mounting film
- Medium-tack and bond
- Single liner reduces waste

Typical Uses:

- Mounting graphics and photographic prints to graphic art boards
- Indoor and outdoor window signage
- Point-of-purchase displays
- Flat and slightly curved surfaces

Physical Properties	Typical Values
Thickness , inches (µm) Carrier plus adhesive	0.0053 (60)
Quick Tack on SS , lb./in2 (N/25mm)	Side 1 / Side 2 2.5 / 2.0
Shear , hours to fail - Stainless Steel	>100
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 2.3
Adhesive PH	Neutral
Temperature Ranges	
Application:	40° F (+5°C) for best results
End Use:	-20° to 194° F (-30° to 90°C)
Shelf Life:	
Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACtac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
PP2018W54L164	54" x 164'	28

PERMACOLOR®
GEMINI XT™



Application: Digital Image
Material: PERMACOLOR® GEMINI XT™



PP5000 a thin, white polypropylene film and **PP5600** a thin, clear polyester film are coated on both sides with an aggressive rubber-based, pressure sensitive adhesive. A white, polycoated coated 2-side, moisture stable paper liner protects the adhesive.

PP5000 and **PP5600** are economically designed mounting products with a high-tack, high peel adhesion and high cohesive strength for quick adhesion to a wide variety of mounting surfaces and efficient processing through most roll laminators. The single release liner (self-wound) permits easy lamination and eliminates the need to remove a second liner in applications where that may be difficult or impossible.

Features and Benefits:

- Good for low energy surfaces such as Sintra, plastic and styrene

Typical Uses:

- General purpose mounting of digital images

Physical Properties	Typical Values
Thickness, inches (µm) Carrier plus adhesive	0.005 (127)
Quick Tack on SS, lb./in2 (N/25mm)	9.0 (39)
Shear, hours to fail - Stainless Steel	600+
Peel Adhesion, lb/in. (N/25 mm)	
Stainless Steel - 30 min.	11 (50)
Acrylic Panels - 30 min.	12 (45)
Sinatra Board - 30 min.	4.5 (19)
Digital Film - 30 min.	6.3 (28)
Digital Paper - 30 min.	5.3 (24)
Adhesive PH	Neutral
Temperature Ranges	
Application:	> 50° (10°C) for best results
End Use:	-20° to 195° F (-30° to 90°C)
Shelf Life:	Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACtac recommends the rolls be stored on end or suspended from the core.

Stock No. PP5000	Stock No. PP5600	Roll Width x Length	Weight: Pounds
PP5042L150	PP5642L150	42" x 150'	20
PP5051L150	PP5651L150	51" x 150'	24
PP5051L400	PP5651L400	51" x 400'	65
PP5054L150	PP5654L150	54" x 150'	26
PP5054L400	PP5654L400	54" x 400'	68

Thermacolor®

Tip

The suggested laminating temperature is approximately 190°F (88°C) for 3-mil, 200°F (94°C) for 5-mil and 210°F (99°C) for 10-mil PERMACOLOR at a throughput speed of 3-5 ft./minute. The temperature and/or speed may need to be adjusted depending on the specific laminating equipment, thickness of the PERMACOLOR and desired throughput speed.

To increase production speed, temperature increases of 10-20°F (5-10°C) may permit operating at 10 ft./minute.



TL2000 3.0-Mil & 5.0-Mil High-Gloss is a family of clear, glossy PET films with a heat activated, polymeric adhesive on one side. The use of TL2000 lends depth and vibrancy to underlying images. Stiffness of the laminated image will vary with the PERMACOLOR® thickness selected as well as whether or not it is used on both sides. The thicker products provide maximum protection.

Features and Benefits:

- Enhances image to provide more vibrant colors
- UV inhibitors protect image from color fade
- Protects from moisture

Typical Uses:

- Retail displays

Physical Properties	Typical Values
Thickness	3-mil (1/2) 5-mil (3/2)
Roll Wind	Adhesive In
Adhesive PH	7.0
Core Size	3" I.D.
Heat Seal Initiation Temperature	180°F (82°C)
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
3-mil		
TL2031	51" x 500'	41
TL2033*	43" x 500'	35
TL2035	38" x 500'	32
TL2037*	33" x 500'	30
5-mil		
TL2051	51" x 250'	39
TL2053	43" x 250'	34
TL2055	38" x 250'	29
TL2057	33" x 250'	26

Thermacolor®

Tip

Be advised that a high temperature along with a slow running speed could cause blistering or waviness in the final laminated image. To correct this problem, try reducing the temperature or increasing the speed.

In addition, a low temperature and a high running speed could result in incomplete bonding and poor adhesive wet-out (sometimes referred to as "silvering"). To correct this problem, use adequate laminating pressure, raise the temperature slightly or slow the running speed.



TL2100 10-Mil High-Gloss is a family of clear, glossy PET films with a heat activated, polymeric adhesive on one side. The use of TL2100 lends depth and vibrancy to underlying images. Stiffness of the laminated image will vary with the PERMACOLOR thickness selected as well as whether or not it is used on both sides. The thicker products provide maximum protection.

Features and Benefits:

- Enhances image to provide more vibrant colors
- Protects image from UV color fade
- Protects image from moisture and abrasions

Typical Uses:

- Roll displays
- Retail displays

Physical Properties	Typical Values
Thickness	10-mil (7/3)
Roll Wind	Adhesive In
Adhesive PH	7.0
Core Size	3" I.D.
Heat Seal Initiation Temperature	180°F (82°C)
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
TL2101	51" x 250'	75
TL2103*	43" x 250'	64
TL2105	38" x 250'	56
TL2107*	33" x 250'	50

Thermacolor®

Tip

In the physical properties box for the thermal films section, the thickness fraction is the composition of the film. The first number indicates the thickness of the film layer, the second number indicates the thickness of the adhesive layer. Typically the thicker the film layer is, the higher quality the laminate is.



TL4000 3.0-Mil Satin Polyester is a family of clear, satin PET films with a heat activated, polymeric adhesive on one side. The use of TL4000 lends depth and vibrancy to underlying images. Stiffness of the laminated image will vary with the PERMACOLOR® thickness selected as well as whether or not it is used on

both sides.

Features and Benefits:

- Lends body to image for easier handling and display
- Protects image from UV light
- Enhances color while cutting back on glare

Typical Uses:

- Retail displays
- Trade show displays

Physical Properties	Typical Values
Thickness	3-mil (1/2)
Roll Wind	Adhesive In
Adhesive PH	7.0
Core Size	3" I.D.
Heat Seal Initiation Temperature	180°F (82°C)
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACtac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
TL4031	51" x 500'	40
TL4033*	43" x 500'	34
TL4035	38" x 500'	31
TL4037*	33" x 500'	29

Thermacolor®



TL5600 3.0-Mil Matte Polyester is a family of flat, non-glare (matte) clear PET films with a heat activated, polymeric adhesive on one side. The use of TL5600 lends depth and vibrancy to underlying images, has built in scratch resistance and offers no-glare surface where bright overhead lighting makes glossy finished films

impossible to see.

Features and Benefits:

- Non-glare matte finish
- Protects image from contaminants and UV light.

Typical Uses:

- Retail displays
- Signage

Physical Properties	Typical Values
Thickness	3-mil (0.5/2.5)
Roll Wind	Adhesive In
Adhesive PH	7.0
Core Size	3" I.D.
Heat Seal Initiation Temperature	180°F (82°C)
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACtac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
TL5631	51" x 500'	40
TL5633*	43" x 500'	34
TL5635	38" x 500'	31
TL5637*	33" x 500'	29

* 15 Day Leadtime

Thermacolor®



Application: Rollable Graphics
Material: Thermal Overlaminate



TL5000 5.0-Mil Matte Polyester is a family of flat, non-glare (matte) clear PET films with a heat activated, polymeric adhesive on one side. The use of TL5000 lends depth and vibrancy to underlying images, has built in scratch resistance and offers a no-glare surface where bright overhead lighting makes glossy finished films

impossible to see.

Features and Benefits:

- Eliminates glare
- Protects image from UV color fade
- Protects image from moisture and other contaminants

Typical Uses:

- Trade show displays
- P.O.P. displays

Physical Properties	Typical Values
Thickness	5-mil (3/2)
Roll Wind	Adhesive In
Adhesive PH	7.0
Core Size	3" I.D.
Heat Seal Initiation Temperature	180°F (82°C)
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
TL5051	51" x 250'	39
TL5053*	43" x 250'	34
TL5055	38" x 250'	29
TL5057*	33" x 250'	26

Thermacolor®

Tip

MACTac thermal overlaminates are low temperature laminates and are safe to use on water-based ink jet images. When laminating a water-based ink jet image do not exceed 200°F.

It is important to make sure your image, water-based or other, is completely dry before using any laminate. It is especially important when thermal laminating. MACTac recommends allowing an image to dry for 24 hours prior to lamination.



TL5100 10-Mil Matte Polyester is a family of flat, non-glare (matte) clear PET films with a heat activated, polymeric adhesive on one side. The use of TL5000 lends depth and vibrancy to underlying images, has built in scratch resistance and offers no-glare surface where bright overhead lighting makes glossy finished films

impossible to see.

Features and Benefits:

- Adds body to image to allow for easier handling and display
- Adds durability

Typical Uses:

- Rollable graphics
- Retail displays

Physical Properties	Typical Values
Thickness	10-mil (7/3)
Roll Wind	Adhesive In
Adhesive PH	7.0
Core Size	3" I.D.
Heat Seal Initiation Temperature	180°F (82°C)
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
TL5151	51" x 250'	75
TL5153*	43" x 250'	65
TL5155	38" x 250'	56
TL5157*	33" x 250'	50

* 15 Day Leadtime

Thermacolor®

Tip

MACtac does not recommend using a thermal laminate on a pressure-sensitive backed media. The heat required to activate the laminate can distort the adhesive and turn it to mush.

If you choose to thermal laminate an image that will be mounted to a board using pressure-sensitive adhesive, MACtac recommends you first laminate the image with the thermal laminate. After cooling, apply the image to the board with a pressure-sensitive adhesive. This does require a three step process but will eliminate the need to redo the graphic completely.



TL5400 ThermaFlex 5.0-Mil is a family of uniquely textured, clear PET films with a heat activated, polymeric adhesive on one side. The use of ThermaFlex lends depth and vibrancy to underlying images, has built in scratch resistance and offers a no-glare surface where bright overhead lighting makes glossy finished films impossible to see.

Features and Benefits:

- Adds body to image for easy rolling and display
- Eliminates glare
- Provides protection against UV color fade, scratches and abrasions.

Typical Uses:

- Trade show displays
- P.O.P. displays
- Kiosks

Physical Properties	Typical Values
Thickness	5-mil (3/2)
Roll Wind	Adhesive In
Adhesive PH	7.0
Core Size	3" I.D.
Heat Seal Initiation Temperature	180°F (82°C)
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACtac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
TL5451	51" x 250'	39
TL5455	38" x 250'	29

Thermacolor®



TL6100 10-Mil Textured Vinyl is a family of embossed clear PVC films with a heat activated, polymeric adhesive on one side. The use of TL6100 lends depth and vibrancy to underlying images, has built in scratch resistance and offers a no-glare surface where bright overhead lighting makes glossy finished films impossible to see.

Features and Benefits:

- Textured finish protects image from scratches and abrasions
- UV inhibitors protect image from color fade

Typical Uses:

- Rollable graphics

Physical Properties	Typical Values
Thickness	10-mil (7.3)
Roll Wind	Adhesive In
Adhesive PH	7.0
Core Size	3" I.D.
Heat Seal Initiation Temperature	170°F (77°C)
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACtac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
TL6151	51" x 250'	39
TL6155	38" x 250'	29

Thermacolor®

DIGITAL
graphics

opaque

HEAT
activated

TL8000 5.0-Mil White Opaque Polyester is a bright white, opaque, glossy PET films with heat activated, polymeric adhesive on one side. TL8000 is intended for back of graphic images, posters and other printed materials. The use of TL8000 enhances color density, lends depth and vibrancy and helps diffuse light in backlit applications.

Features and Benefits:

- Gives opacity to the image
- Adds depth of color to the print

Typical Uses:

- Free hanging signage
- Trade show graphics
- Rollable displays
- Posters
- P.O.P displays

Physical Properties	Typical Values
Thickness	5-mil (1/4)
Roll Wind	Adhesive In
Adhesive PH	7.0
Core Size	3" I.D.
Heat Seal Initiation Temperature	180°F (82°C)
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
TL8051	51" x 250'	36
TL8053*	43" x 250'	31
TL8055	38" x 250'	29
TL8057*	33" x 250'	24

DIGITAL
graphics

opaque

HEAT
activated

TL8100 10-Mil White Opaque Polyester is a bright white, opaque, glossy PET films with heat activated, polymeric adhesive on one side. TL8100 is intended for back of graphic images, posters and other printed materials. The use of TL8000 enhances color density, lends depth and vibrancy and helps diffuse light in backlit applications.

Features and Benefits:

- Gives opacity to the image
- Adds stiffness to improve handling

Typical Uses:

- Free hanging signage
- Trade show graphics
- Rollable displays
- Posters
- P.O.P displays

Physical Properties	Typical Values
Thickness	10-mil (7/3)
Roll Wind	Adhesive In
Adhesive PH	7.0
Core Size	3" I.D.
Heat Seal Initiation Temperature	180°F (82°C)
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
TL8151	51" x 250'	75
TL8153*	43" x 250'	65
TL8155	38" x 250'	56
TL8157*	33" x 250'	50

DIGITAL
graphics

opaque

HEAT
activated

TL8300 10-Mil Light Block Polyester is a bright white, opaque, glossy PET film on one side, a thin layer of foil for 100% opacity in the middle and a heat activated, polymeric adhesive on the other side for adhesion to a wide variety of surfaces. Light Block is intended for the back of graphic images, posters and other printed materials where 100% opacity is required. The use of Light Block also adds stiffness to the image.

Features and Benefits:

- Completely blocks out light from back of image
- Provides body to final image

Typical Uses:

- Hanging signage
- P.O.P displays
- Window signage
- Trade show and kiosk exhibits

Physical Properties	Typical Values
Thickness	10-mil (4.0/0.3/5.7)
Roll Wind	Adhesive In
Adhesive PH	7.0
Core Size	3" I.D.
Heat Seal Initiation Temperature	180°F (82°C)
Shelf Life: Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: MACTac recommends the rolls be stored on end or suspended from the core.	

Stock No.	Roll Width x Length	Weight: Pounds
TL8351	51" x 250'	75
TL8355	38" x 250'	56

* 15 Day Leadtime

REBEL™ - versatility and value.

Need to do a large run, in a short time and you're watching the bottom line? Then you need **REBEL**, a full line of quality screen-printable media for a wide range of graphic applications. **REBEL** products are available in **roll** or **sheet** form with outdoor durability from 4-5 years. From signage and vehicle graphics to POP, billboards, banners and more, **REBEL** can provide you with cost-effective, long lasting graphics.



Digital & Screenprint Media



	Product	Description	Indoor Floor	P.O.P/ Indoor	Short-Term Graphics	Outdoor Signs
Intermediate Visit www.MACtac.com/Graphics for the most up-to-date product literature and technical assistance guides.	REBEL™RB528H	4.0-Mil Matte, White		✓		✓
	REBEL RB528P	4.0-Mil Matte, White				✓
	REBEL RB529P	4.0-Mil Gloss, White	✓			✓
	REBEL RB599H	4.0-Mil Gloss, Clear		✓		✓
	REBEL RB599R	4.0-Mil Gloss, Clear		✓		✓
	REBEL RB528R	4.0-Mil Matte, White		✓		✓
	REBEL RB529R	4.0-Mil Gloss, White		✓		✓
Economy	REBEL RB428P	4.0-Mil Matte, White		✓		✓
	REBEL RB429P	4.0-Mil Gloss, White		✓		✓

Reminder: When screen printing it is important to cure inks properly. Certain solvents, if retained, can lead to plasticization problems resulting in subsequent application issues and poor weathering properties.

Features and Benefits:

- Vinyl opaque media in matte and gloss finishes
- Permanent and removable clear adhesives
- Removable adhesive is cleanly removable from a range of substrates
- Facestocks designed specifically for screen printing and digital printing
- Adhesive systems matched to a broad range of demanding applications
- Specially formulated liners for excellent layflat
- Warranted to work
- Compatible with wide-format solvent and eco-solvent, latex and UV inks, as well as solvent and UV screen inks

Indoor Promotional Signs	Tradeshows	Printed Labels	Decals	Bumper Stickers	Walls	Adhesive Liner / Durability
	✓		✓		✓	High-Tack, Permanent 90# Polycoated SuperFlat™ / 5 Years
✓		✓	✓			Permanent 90# Polycoated SuperFlat™ / 5 Years
✓		✓	✓		✓	Permanent 90# Polycoated SuperFlat™ / 5 Years
	✓		✓			High-Tack, Permanent 90# Polycoated SuperFlat™ / 5 Years
✓		✓	✓			Removable 90# Polycoated SuperFlat™ / 5 Years
✓		✓	✓			Removable 90# Polycoated SuperFlat™ / 5 Years
✓		✓	✓			Removable 90# Polycoated SuperFlat™ / 5 Years
✓	✓	✓	✓			Permanent 90# Polycoated SuperFlat™ / 4 Years
✓	✓	✓	✓			Permanent 90# Polycoated SuperFlat™ / 4 Years

Tips

During printing it is important to ensure removal of the printing ink solvent during the drying process. Certain solvents, if retained, can lead to plasticization problems resulting in subsequent application issues and poor weathering properties.

Where exposure to chemical and solvent spills are likely to occur, edge sealing of decals with a varnish or clear coat will prevent edge lift. Correct varnishing of decals gives greater protection and longer end-use life against prolonged weathering, abrasion and other erosive effects such as frequent cleaning.



Application: Indoor signage
Material: REBEL™



RB528P High-performance Multi-Print Media is a 4.0-mil opaque matte white vinyl coated with a permanent acrylic pressure-sensitive adhesive. The 90# SuperFlat™ polycoated release liner provides exceptional lay flat stability. Opacity built into the facestock provides 100%

block out, consistent printability, and a clear adhesive to obtain the best possible product durability and performance.

Features and Benefits:

- Wide-format and screen printable
- Five year outdoor durability
- True white matte face
- Strong permanent bond
- Resists creep, solvents and heat

Typical Uses:

- Screen print labels and OEM decals
- Point of purchase displays
- Intermediate outdoor signage
- Long-term indoor signage

Physical Properties	Typical Values
Thickness	.0042 (106)
Peel Adhesion, lb/in. (N/25 mm)	
Stainless Steel	- 30 min. 2.7 (12)
	-24 hr 3.5 (15)
	-24 hr heat aged @158°F 4.5 (20)
Quick Tack on SS, lb./in2 (N/25mm)	1.7
Dimensional Stability (shrinkage), %	
48 hours @ 158°F (70°C) MC / CD	.06/.04
Temperature Ranges	
Application:	40° to 150°F (-4°C to 65°C)
End Use:	-75° to 200° F (-59° to 94°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Core	Weight: Pounds
RB528PW54L150	54" x 150'	3"	43
RB528PW60L150	60" x 150'	3"	47
RB528PW6*	54" x 300'	6"	92

* Special roll size for drum-type printers



RB528R High-performance Multi-Print Media is a 4.0-mil opaque matte white vinyl coated with a removable acrylic pressure-sensitive adhesive. The 90# SuperFlat™ polycoated release liner provides exceptional lay flat stability. Opacity built into the facestock provides 100% block

out, consistent printability, and a clear adhesive to obtain the best possible product durability and performance.

Features and Benefits:

- Wide-format and screen printable
- Five year outdoor durability
- True white matte face
- Lower initial tack
- Stronger removable bond

Typical Uses:

- Screen print labels and decals
- Floor, wall and window graphics
- P.O.P. displays
- Intermediate outdoor signage
- Intermediate indoor signage

Physical Properties	Typical Values
Thickness	.0042 (106)
Peel Adhesion, lb/in. (N/25 mm)	
Stainless Steel	- 30 min. 2.0 (8.7)
	-24 hr 2.7 (12)
	-1 wk heat aged @158°F 3.0 (13)
Glass - 30 min.	2.1 (9.2)
	-24 hr 2.0 (8.7)
	-1 wk heat aged @158°F 2.8 (12.2)
Quick Tack lb./in2 (N/25mm)	
Stainless Steel	1.2 (5.2)
Glass	1.2 (5.2)
Dimensional Stability (shrinkage), %	
48 hours @ 158°F (70°C) MC / CD	.06/.04
Temperature Ranges	
Application:	32° to 150°F (0°C to 65°C)
End Use:	-75° to 200° F (-59° to 94°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Core	Weight: Pounds
RB528RW54L150	54" x 150'	3"	43
RB528RW60L150	60" x 150'	3"	47
RB528RW6*	54" x 300'	6"	92

* Special roll size for drum-type printers



Application: Indoor Signage
Material: REBEL™



RB529P High-performance Multi-Print Media is a 4.0-mil opaque high-gloss white vinyl coated with a permanent acrylic pressure-sensitive adhesive. The 90# SuperFlat™ polycoated release liner provides exceptional lay flat stability. Opacity built into the facestock provides 100%

block out, consistent printability, and a clear adhesive to obtain the best possible product durability and performance.

Features and Benefits:

- Wide-format and screen printable
- Five year outdoor durability
- MACTac™ high-gloss white face
- Strong permanent bond
- Resists creep, solvents and heat

Typical Uses:

- Screen print labels
- OEM decals
- Permanent floor and walls
- P.O.P. displays
- Intermediate outdoor signage
- Long-term indoor signage

Physical Properties	Typical Values
Thickness	.0042 (106)
Peel Adhesion , lb/in. (N/25 mm)	
Stainless Steel	- 30 min. 2.7 (12)
	-24 hr 3.5 (15)
	-24 hr heat aged @158°F 4.5 (20)
Quick Tack on SS , lb./in2 (N/25mm)	1.7 (7.5)
Dimensional Stability (shrinkage), %	
48 hours @ 158°F (70°C) MC / CD	.06/.04
Temperature Ranges	
Application:	40° to 150°F (-4°C to 65°C)
End Use:	-75° to 200° F (-59° to 94°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Core	Weight: Pounds
RB529PW54L150	54" x 150'	3"	43
RB529PW60L150	60" x 150'	3"	47
RB529PW6*	54" x 300'	6"	92

* Special roll size for drum-type printers



RB529R High-performance Multi-Print Media is a 4.0-mil opaque high-gloss white vinyl coated with a removable acrylic pressure-sensitive adhesive. The 90# SuperFlat polycoated release liner provides exceptional lay flat stability. Opacity built into the facestock provides 100% block

out, consistent printability, and a clear adhesive to obtain the best possible product durability and performance.

Features and Benefits:

- Wide-format and screen printable
- Five year outdoor durability
- MACTac high-gloss white face
- Lower initial tack
- Stronger removable bond

Typical Uses:

- Screen print labels and decals
- Floor, wall and window graphics
- P.O.P. displays
- Intermediate outdoor signage
- Intermediate indoor signage

Physical Properties	Typical Values
Thickness	.0042 (106)
Peel Adhesion , lb/in. (N/25 mm)	
Stainless Steel	- 30 min. 2.0 (8.7)
	-24 hr 2.7 (12)
	-24 hr heat aged @158°F 3.0 (13)
Glass - 30 min.	2.1 (9.2)
	-24 hr 2.0 (8.7)
	-24 hr heat aged @158°F 2.8 (12.2)
Quick Tack lb./in2 (N/25mm)	
Stainless Steel	1.2 (5.2)
Glass	1.2 (5.2)
Dimensional Stability (shrinkage), %	
48 hours @ 158°F (70°C) MC / CD	.06/.04
Temperature Ranges	
Application:	32° to 150°F (-0°C to 65°C)
End Use:	-75° to 200° F (-59° to 94°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Core	Weight: Pounds
RB529RW54L150	54" x 150'	3"	43
RB529RW60L150	60" x 150'	3"	47
RB529RW6*	54" x 300'	6"	92

* Special roll size for drum-type printers





Application: outdoor signage
Material: REBEL™



RB528H High-performance Multi-Print Media is a 4.0-mil opaque matte white vinyl coated with a high-tack permanent acrylic pressure-sensitive adhesive. The 90# SuperFlat™ polycoated release liner provides exceptional lay flat stability. Opacity built into the facestock provides 100% block out, consistent printability, and a clear adhesive to obtain the best possible product durability and

performance.

Features and Benefits:

- Wide-format and screen printable
- 100% block-out
- Five year outdoor durability
- True white matte face
- High-tack permanent bond
- Resists creep, solvents and heat

Typical Uses:

- Low surface energy applications
- Gator, Sintra, Primed MDO
- OEM decals
- Permanent wall murals
- P.O.P. displays
- Intermediate outdoor signage
- Long-term indoor signage
- Long-term indoor signage

Physical Properties	Typical Values
Thickness	.0045 (144)
Peel Adhesion, lb/in. (N/25 mm)	
Stainless Steel	- 30 min. 4.4 (19)
	-24 hr 6.0 (26)
	-24 hr heat aged @158°F 7.2 (32)
	-72 hr 7.0 (31)
	-72 hr aluminum 8.8 (39)
	-72 hr Powder coated paint 4.5 (20)
Quick Tack on SS, lb./in2 (N/25mm)	3.5 (15.3)
Dimensional Stability (shrinkage), %	
48 hours @ 158°F (70°C) MC / CD	.06/.04
Temperature Ranges	
Application:	40° to 150°F (-4°C to 65°C)
End Use:	-75° to 200° F (-59° to 94°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Core	Weight: Pounds
RB528HW54L150	54" x 150'	3"	54
RB528HW60L150	60" x 150'	3"	47
RB528HW60L300	60" x 300'	3"	
RB528HW6*	54" x 300'	6"	92

* Special roll size for drum-type printers



Application: Indoor signage
Material: REBEL™



RB599H High-performance multi-print media is a 4.0-mil high-gloss clear flexible vinyl coated with a high-tack permanent acrylic adhesive. The 90# SuperFlat polycoated liner provided exceptional moisture stability regardless of print method. RB599H can be solvent, eco-solvent, and UV wide-format ink jet printed, as well as screen printed.

Features and Benefits:

- Wide-format and screen printable
- Up to five year outdoor durability
- High-tack for hard-to-stick-to materials

Typical Uses:

- Low surface energy applications
- Gator, Sintra, Primed MDO
- OEM decals
- POP displays
- Medium to long-term outdoor signage

Physical Properties	Typical Values
Thickness	.0045 (144)
Peel Adhesion, lb/in. (N/25 mm)	
Stainless Steel	- 30 min. 4.4 (19)
	-24 hr 6.0 (26)
	-24 hr heat aged @158°F 7.2 (32)
	-72 hr 7.0 (31)
	-72 hr aluminum 8.8 (39)
	-72 hr Powder coated paint 4.5 (20)
Quick Tack on SS, lb./in2 (N/25mm)	3.5 (15.3)
Dimensional Stability (shrinkage), %	
48 hours @ 158°F (70°C) MC / CD	.06/.04
Temperature Ranges	
Application:	40° to 150°F (-4°C to 65°C)
End Use:	-75° to 200° F (-59° to 94°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Core	Weight: Pounds
RB599HW54L150	54" x 150'	3"	43
RB599HW54L300	54" x 300'	3"	92
RB599HW546	54" x 300'	6"	92



Application: Indoor signage
Material: REBEL™



RB599R High-performance Multi-Print Media is a 4.0-mil clear high-gloss vinyl coated with a removable acrylic pressure-sensitive adhesive. The 90# SuperFlat™ polycoated release liner provides exceptional lay flat stability. Eco-solvent, solvent and UV screen-printable.

Features and Benefits:

- Wide-format and screen printable
- Five year durability
- Two year removability
- MACTac® high-gloss face
- Lower initial tack
- Stronger removable bond

Typical Uses:

- Screen print labels and decals
- Window graphics
- P.O.P. displays
- Intermediate outdoor signage
- Intermediate indoor signage

Physical Properties	Typical Values
Thickness	.0042 (1.6)
Peel Adhesion , lb/in. (N/25 mm)	
Stainless Steel	- 30 min. 1.7 (7.5) -24 hr 2.2 (9.6)
Quick Tack on SS , lb./in2 (N/25mm)	1.5 (6.5)
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C) MC / CD	.06/.04
Temperature Ranges	
Application:	32° to 150°F (0°C to 65°C)
End Use:	-40° to 200° F (-5° to 94°C)
Shelf Life:	Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.

Stock No.	Roll Width x Length	Core	Weight: Pounds
RB599RW54L150	54" x 150'	3"	54
RB599RW60L150	60" x 150'	3"	47
RB599RW6*	54" x 300'	6"	92



Application: Outdoor signage
Material: REBEL™



RB428P/RB429P REBEL Intermediate Multi-Print Media is a 4.0-mil opaque matte & gloss white vinyl coated with a permanent acrylic pressure-sensitive adhesive. The 90# SuperFlat polycoated release liner provides exceptional lay flat stability. Opacity built into the facestock provides 100% block out, consistent printability, and clear adhesive to obtain the best possible product durability and performance.

Features and Benefits:

- Wide-format and screen printable
- Three to four years outdoors
- Five years indoor durability
- True white matte face
- Strong permanent bond
- Resists creep, solvents and heat

Typical Uses:

- Screen print labels
- OEM decals
- P.O.P. displays
- Intermediate outdoor signage

Physical Properties	Typical Values
Thickness	0.0040 (157)
Peel Adhesion, lb/in. (N/25 mm)	
Stainless Steel	- 30 min. 2.7 (12)
	- 24 hr 3.2 (14)
	- 25 hr heat aged @158°F 4.0 (18)
Quick Tack on SS, lb./in2 (N/25mm)	1.5 (6.5)
Dimensional Stability (shrinkage), %	
48 hours @ 158°F (70°C) MC / CD	0.1/0.1
Temperature Ranges	
Application:	40° to 150°F (-4°C to 65°C)
End Use:	-40° to 200° F (-59° to 94°C)
Shelf Life:	
Two years from D.O.M when stored at 60/77°F (15-25°C) and 50% relative humidity in the original packaging.	

Stock No.	Roll Width x Length	Core	Weight: Pounds
RB428P			
RB428PW54L150	54" x 150'	3"	43
RB428PW60L150	60" x 150'	3"	47
RB428PW6*	54" x 300'	6"	92
RB429P			
RB429PW54L150	54" x 150'	3"	43
RB429PW60L150	60" x 150'	3"	47
RB429PW6*	54" x 300'	6"	92

MACmark® change graphics from ordinary to extraordinary!

Build your business and your reputation with the complete line of **MACmark** vinyl marking films.

The **MACmark** line features a broad spectrum of colored, textured and special effect films for cut vinyl applications that range from short-term signage to long-term fleet graphics. **MACmark** vinyls exhibit excellent conformability and adhesion to difficult surfaces and can withstand high temperatures.



Application: Storefront Advertising
Material: MACmark



Application: Vehicle Graphics
Material: MACmark 9800

MACmark films are offered in the following categories:

- Cast High-Performance
- Calendered High-Performance
- Translucent High-Performance
- Intermediate
- Specialty

Features and Benefits:

- Thermal transfer printable
- A wide variety of high-performance opaque and metallic colors
- Highly conformable over rivets, curves, and corrugations
- Superior cutting and weeding properties
- Industry's highest gloss level
- Contrast liners for easy weeding of white films
- Long-term color and gloss durability
- Warranted to work

MACmark®

Superior cutting and weeding properties.
Contrast liners for easy and quick weeding.



Product	Outdoor Durability	Thickness	Colors	Characteristics	Long-term Outdoor Advertising	Fleet Marking / Vehicle Markings / Decals & Striping	Full Vehicle Wraps
High-Performance Marking Films							
6600	Up to 8years	2.0-Mil	63 Gloss 22 Metallic 2 Matte	<ul style="list-style-type: none"> • Polymeric cast opaque vinyl • Permanent clear solvent acrylic adhesive • 78# bleached white Kraft liner: stability and layflat 	✓	✓	✓
9800PRO	Up to 7-8 years	2.8-Mil	50 Gloss 6 Luminous 2 Matte	<ul style="list-style-type: none"> • Polymeric calendared vinyl alternative to cast • Permanent solvent acrylic adhesive • 83# bleached white Kraft liner: stability and layflat 	✓	✓	
9700PRO	Up to 5-7 years	3.1-Mil	34 Matte	<ul style="list-style-type: none"> • Polymeric calendared translucent vinyl • Consistent day/night color • Permanent solvent acrylic adhesive • 83# bleached white Kraft line: stability and layflat 	✓		
TuningFilms Carbon Fiber BF	Up to 5 years	6.9-Mil	5 Colors	<ul style="list-style-type: none"> • Trendy carbon fiber texture • B-free air-egress permanent acrylic adhesive • 80# polycoated layflat liner: stability and layflat 	✓	✓	
TuningFilms Iridescent	Up to 3-5 years	2.4-Mil	3 Colors and finishes	<ul style="list-style-type: none"> • Ultra conformable cast vinyl that changes colors • Low tack high-performance acrylic adhesive • 78# bleached white Kraft Liner for stability and layflat 	✓	✓	✓
TuningFilms Textured	Up to 5 years	8.7-Mil	2 Colors/ Finishes	<ul style="list-style-type: none"> • Soft structured cast vinyl in black leather or silver moon finishes • Low tack high-performance acrylic adhesive • 83# bleached white Kraft liner for stability and layflat 	✓	✓	
TuningFilms Metal BF	Up to 5 years	5.5-Mil	5 Colors/ Finishes	<ul style="list-style-type: none"> • Embossed polymeric vinyl looks like metal • Permanent acrylic adhesive • 90# polycoated layflat liner 		✓	
TuningFilms Sublime BF	Up to 7-8 years	3.9-Mil	15 Matte 15 Gloss	<ul style="list-style-type: none"> • Polymeric calendared vinyl changes vehicle color • B-free air-egress permanent acrylic adhesive • 83# bleached white Kraft liner for stability and layflat 	✓	✓	✓
TuningFilms 800 BF Stellar	Up to 5 years	4.7-Mil	8 Gloss	<ul style="list-style-type: none"> • Sparkling double layer cast vinyl • B-free air-egress permanent acrylic adhesive • 90# polycoated layflat liner 		✓	✓
Intermediate Marking Films							
8900PRO	Up to 4 years outdoor; 5 years indoor	2.8-Mil	54 Matte 2 Gloss	<ul style="list-style-type: none"> • Calendared vinyl • Adhesive removes cleanly up to 2 years from most surfaces • 83# bleached white Kraft liner: stability and layflat 			
8300PRO	Up to 4-5 years	2.8-Mil	51 Gloss 2 Matte	<ul style="list-style-type: none"> • Highest gloss in the industry • Permanent solvent acrylic adhesive • 83# bleached white Kraft liner for stability and layflat 		✓	
600 Décor	Up to 5 years indoor	1.5-Mil	4 Designs	<ul style="list-style-type: none"> • Transparent polyester film in decorative patterns • Ultra clear permanent solvent acrylic adhesive • Highly stable 1.5-mil clear polyester liner 			
700 Décor	Up to 5 years	3.0-Mil	5 Matte 2 Gloss 2 Matte Finishes	<ul style="list-style-type: none"> • Polymeric translucent color vinyl • Consistent day/night color • Permanent transparent solvent acrylic adhesive • 83# bleached white Kraft liner: stability and layflat 			
MACcrystal® 8400	Up to 3 years	3.1-Mil	17 Gloss	<ul style="list-style-type: none"> • Glossy translucent vinyl with color uniformity • Permanent transparent acrylic adhesive • 83# bleached white Kraft liner: stability and layflat 			
Specialty Films							
5700	5-7 Years	6.0-Mil	7 Colors	<ul style="list-style-type: none"> • Reflective polymeric film with excellent night and day visibility • White high strength permanent acrylic adhesive • 92# White polycoated lay flat liner 	✓	✓	
6400	5 Years	2.0-Mil	14 Lustre	<ul style="list-style-type: none"> • Polymeric iridescent cast vinyl • Ultra conformability on complex curves • Permanent solvent acrylic adhesive 		✓	✓
6700	5 Years	3.0-Mil	15 Sparkle	<ul style="list-style-type: none"> • Polymeric sparkle metallic cast vinyl • Ultra conformability on complex curves • Permanent solvent acrylic adhesive 	✓	✓	
6800	Up to 6 months	2.3-Mil	6 Fluorescent	<ul style="list-style-type: none"> • Eye catching color polymeric cast vinyl • Permanent solvent acrylic adhesive • 78# Bleached white Kraft liner: stability and layflat 			
wallCHALKER™	Up to 4 Years	4.0-Mil	True Black	<ul style="list-style-type: none"> • Semi-rigid chalkable vinyl • Aggressive removable adhesive removes cleanly up to 2 years from most surfaces • 83# Kraft Layflat liner 	✓		

Recommended Application Tapes: MACtransfer 210 with medium tack adhesive for medium to large decals and MACtransfer 220 with high-tack adhesive for small letter and fine lines.

											Recommended Surfaces		
Marine Markings	Interior Glass Partitions & Windows	Exterior Windows	Wall Design	Wall Words	Logo & Signs	Backlit Signs	Awnings	POP Promotional Signage	Banners	Additional Applications	Flat or Curved	Complex Curves	Rivets
✓		✓			✓						✓	✓	✓
✓		✓	✓		✓			✓			✓		✓
	✓	✓				✓	✓			• Thermoforming	✓		
✓					✓			✓		• Electronics • Vehicle Interiors	✓		
✓			✓		✓			✓	✓	• Electronics • Vehicle Interiors • Décor	✓	✓	✓
✓			✓		✓			✓	✓	• Racing Stripes • Electronics • Vehicle Interiors	✓		
✓		✓			✓			✓		• Racing Stripes • Electronics • Vehicle Interiors	✓		
✓					✓			✓		• Racing Stripes	✓		
✓					✓			✓		• Racing Stripes	✓	✓	✓
	✓		✓	✓	✓			✓		• Indoor Floor Graphics*	✓		
	✓	✓	✓	✓	✓			✓ Flat Surfaces	✓	• Display Graphics • Floor Graphics*	✓		
	✓							✓			✓		
	✓	✓						✓		• Privacy Accents	✓		
	✓	✓			✓						✓		
✓			✓		✓			✓			✓	✓	✓
✓					✓			✓			✓	✓	✓
✓					✓			✓			✓	✓	
	✓				✓	✓		✓			✓	✓	✓
			✓		✓			✓		• Table tops and other flat surfaces	✓		



Application: Vehicle Graphics
Material: MACmark®



Application: Fleet Graphics
Material: MACmark



6600 Cast Vinyl is our **most durable** and **conformable** color vinyl for complex surfaces like **rivets, corrugations** and other **irregular applications**. Engineered for long-term outdoor signage, fleet and vehicles with complex curves. Rich gloss colors and matte white and black.

Features and Benefits:

- Excellent conformability to corrugated and riveted surfaces
- Up to 10 years outdoor durability, five years for metallic colors
- Superior cutting and weeding
- High-performance 2.0-mil cast vinyl
- Clear high-performance solvent acrylic adhesive
- 78# Bleached white Kraft liner for stability and layflat

Typical Uses:

- Full vehicle wrap
- Fleet marking with rivets and irregular surfaces
- Watercraft (Above waterline, 1 year durability)
- Long-term outdoor advertising
- Decorative panels
- Logos and signs
- Exterior window graphics

Physical Properties	Typical Values	
Thickness, inches (µm) Film plus adhesive	0.0032 (81)	
Dimensional Stability (shrinkage),% 48 hours @ 158°F (70°C) bonded aluminum	<0.2	
Peel Adhesion, lb/in. (N/25 mm) Stainless Steel	- 30 min. 4.0 (17) - 24 hr 5.0 (22)	
Face Material Data, 68°F (20°C) Tensile strength lb/in. (N/m) Elongation %	>9.5 (0.97) >100%	
Temperature Ranges Application: End Use:	40° to 104°F (5° to 40°C) -40° to 194° F (-40° to 90°C)	
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.	
Stock No.	Roll Width x Length	Weight: Pounds
CV	48" x 150'	42

Matte White 6628-00	Brick Red Metallic 6659-28	Banana Yellow 6609-09	Medium Red 6659-00		
Matte Black 6688-00	Silver Metallic 6669-00	Dark Yellow 6609-10	Cardinal Red 6659-01	Orange 6601-04	Polo Green 6649-01
Gloss White 6629-00	Smoke Metallic 6669-01	Imitation Gold 6609-20	Tomato Red 6659-04	Tangerine 6601-06	Shamrock Green 6649-05
Gloss Black 6689-00	Charcoal Metallic 6669-02	Oyster 6629-03	Burgundy 6659-14	Yellow 6609-00	Lime Green 6649-07
Powder Blue Metallic 6639-02	Dark Charcoal Metallic 6669-04	Intense Blue 6639-04	Regal Red 6659-16	Butter 6609-05	Kelly Green 6649-09
Demin Blue Metallic 6639-08	Gold Metallic 6679-00	Peacock Blue 6639-07	Brown 6683-03	Almond 6629-04	Apple Green 6649-12
Ice Blue Metallic 6639-18	Bright Gold Metallic 6679-01	Olympic Blue 6639-10	Light Gray 6689-03	Nautical Blue 6639-00	Real Teal 6649-15
Sapphire Blue Metallic 6639-20	Light Gold Metallic 6679-03	Vivid Blue 6639-11	Pewter 6689-04	Spring Blue 6639-05	Seafoam Green 6649-16
Pine Green Metallic 6649-10	Gingersnap Metallic 6683-05	Violet 6639-13	Traffic Gray 6689-05	Lavender 6639-14	Teal 6649-17
Medium Green Metallic 6649-14	Bronze Metallic 6683-06	Light Navy 6639-23	Gray 6689-02	Shadow Blue 6639-15	Spectra Ever- glade 6649-19
Celery Green Metallic 6649-18	Taupe Metallic 6683-11	Sapphire Blue 6639-25	Palm Oyster 6689-07	Plum 6639-16	Medieval Wine 6659-02
Dark Teal Metallic 6649-26	Black Metallic 6689-01	Dark Green 6649-00		Dark Blue 6639-19	New Tomato Red 6659-03
Fire Red Metallic 6659-18	Clear 6699-00	Deep Green 6649-02		Scandinavian Blue 6639-21	Burgundy Maroon 6659-05
Shocking Pink Metallic 6659-21	Bright Orange 6601-05	Bright Green 6649-08		Dark Navy Blue 6639-28	Fire Red 6659-06

Special Order

Raspberry 6659-07	Orchid 6659-08	Blossom 6659-09	Warm Red 6659-10	Vivid Red 6659-11	Spectra Red 6659-12	Cocoa 6683-04	Buckskin 6683-09
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Note: Colors shown may vary due to the printing process. Call for a 6600 Series Color Card (MAC2758) for actual colors.



Application: Fleet Graphics
Material: MACmark[®]

6600 Custom Color Match Program

How to request a custom color match:

- Ask MACtac sales rep to complete form
- Send in the form along with your color sample or PMS color match.
- MACtac[®] will match the color and send you a custom sample, along with an approval form.

How to place a custom color order:

- Sign the custom color approval form and return as directed, with the custom sample.
- Provide a purchase order (6000 sq. ft. minimum order).
- Provide a forecast for future order quantities.

Features and benefits:

- Infinite amount of colors
- Choice of gloss, matte and metallic finishes for vivid colors and contrasts
- MACtac performance Open-Image Warranty™
- 6000 sq. ft. minimum
- Color match returned within 10 days for customer approval
- Only two weeks to manufacture color after approval
- Available up to 60" wide
- Up to 10 years outdoor durability, five years - metallics
- Top quality adhesive performance
- Less shrinkage than industry standard



Application: Fleet Markings
Material: MACmark® 9800PRO

Recommended Application Tapes:

- MACtransfer® 210 for medium to large decals
- MACtransfer 220 for small letters and fine lines



9800PRO and **9800PRO-SL** are high-performance polymeric vinyls used for most of the same applications as cast vinyl at a much more competitive cost. Available in super high gloss colors as well as matte white and black

Features and Benefits:

- Significant cost savings over cast vinyl
- Up to seven years outdoor durability, eight years for black and white and five years for metallic colors
- Superior thermal transfer surface
- Superior cutting and weeding
- Exceptional high-gloss 2.6-mil cadmium-free calendared vinyl
- High-performance adhesives
- 83# Bleached white Kraft liner for stability and layflat

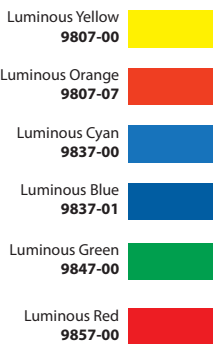
Typical Uses:

- Long-term outdoor advertising
- Fleet marking over simple curves, rivets and corrugations
- Watercraft
- Window graphics
- Decorative panels
- Logos and signs

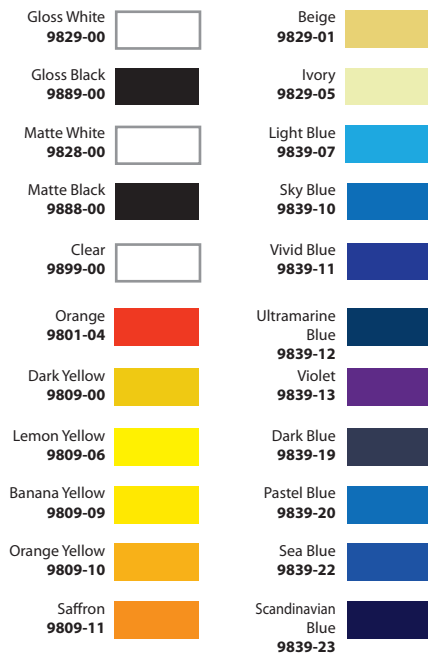
Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.0039 (100)
Dimensional Stability (shrinkage) ,% 48 hours @ 158°F (70°C) bonded aluminum	<0.1
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel - 20 min. 4.0 (16) - 1 week 4.6 (20)	
Face Material Data ,68°F (20°C) Tensile strength lb/in. (N/m) Elongation %	>9.8 (27) >150%
Temperature Ranges Application: 45° to 104°F (8° to 40°C) End Use: -40° to 194° F (-40° to 90°C)	
Flammability , Self-extinguishing Sample mounted on aluminum	ISO 3795
Shelf Life: Two years when stored between 60-80°F (15-25°C) and 50% RH or less.	

Stock No.	Roll Width x Length	Weight: Pounds
CS - punched	15" x 164'	14
CE	15" x 164'	14
CR	24" x 164'	21
CF	30" x 150'	28
CJ - punched	30" x 164'	28
CV	48" x 164'	42
CY	60" x 164'	53

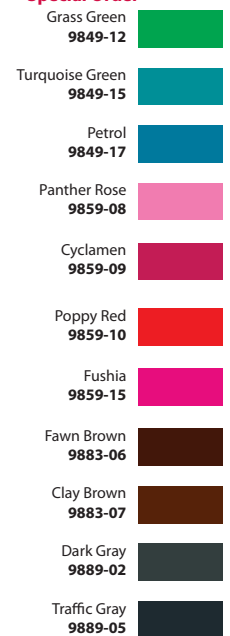
9800PRO-SL Luminous



9800PRO



Special Order



Note: Colors shown shown may vary due to the printing process. Call for a 9800PRO Series Color Card (MAC2760) for actual colors.



Application: Backlit Sign
Material: MACmark® 9700PRO

Recommended Application Tapes:

- MACtransfer® 210 for medium to large decals
- MACtransfer 220 for small letters and fine lines

Note: Colors shown may vary due to catalog printing process. **Call for a 9700PRO Color Card (MAC2762) for actual color swatches.**



9700PRO is a high-performance matte **translucent** vinyl for backlit signs exhibiting ultimate color consistency and excellent wet out characteristics for superior clarity. Can be thermal formed.

Features and Benefits:

- Ultimate color consistency and uniformity
- Bright, vibrant colors
- Used in creating thermal formed signs
- 5-7 Years outdoor and indoor durability
- Superior cutting and weeding
- 3.0-Mil cadmium-free vinyl
- Durable permanent adhesive with excellent wet-out for superior clarity
- 83# Bleached white Kraft liner for stability and layflat

Typical Uses:

- Backlit signs
- Awnings
- Windows

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.0045 (115)
Dimensional Stability (shrinkage) ,% 48 hours @ 158°F (70°C) bonded aluminum	<0.02
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 20 min. 4.6 (20) - 1 week 5.5 (24)
Face Material Data , 68°F (20°C) Tensile strength lb/in. (N/m) Elongation %	>10 (28) >180%
Temperature Ranges Application: End Use:	50° to 104°F (10° to 40°C) -40° to 194° F (-40° to 90°C)
Flammability , Self-extinguishing	ISO 3795
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.

Stock No.	Roll Width x Length	Weight: Pounds
CR	24" x 164'	21
CV	48" x 164'	42

Orange 9702-00	Blue 9738-00	Caribbean Blue 9738-05	Green 9748-00	Burgundy 9758-02	Silver 9768-00	Lemon Yellow 9708-01
Yellow 9708-00	Signal Blue 9738-01	Sea Blue 9738-06	Mint Green 9748-01	Poppy Red 9758-04	Gold 9778-00	Yellow Green 9748-02
Signal Yellow 9708-02	Night Blue 9738-02	Sultan Blue 9738-07	Bottle Green 9748-04	Vermillion Red 9758-05	Black 9788-00	Turquoise 9748-03
Sunflower 9708-03	Ultramarine Blue 9738-03	European Blue 9738-08	Red 9758-00	Tomato Red 9758-06	Gray 9788-01	Vivid Red 9758-01
White 9728-00	Light Blue 9738-04					Cyclamen 9758-03



9700PRO Light Diffusers and Light Stop can be used with translucent 9700PRO to give a more homogenous light diffusion from the light box applications. They modify the "night" colors of the 9700 creating different shades of color for nighttime illumination. Available in 30% and 60% diffusion levels. Light Stop's 100% opacity stops the light from passing through and allows special day/night effects when the box is lit.

Features and Benefits:

- 30% Diffuser 70% opacity
- 60% Diffuser 40% opacity
- Light Stop 100% opacity

Stock No.	Roll Width x Length	Weight: Pounds
CR	24" x 164'	21
CV	48" x 164'	42

Physical Properties	Typical Values Light Diffusers	Typical Values Pro Light Stop
Opacity , % TAPPI-425	9798-30PRO 30% 9798-60PRO 60%	100%
Thickness , inches (µm) Film plus adhesive	.0045 (115)	.0069 (175)
Dimensional Stability (shrinkage) inches (mm) 48hours@ 158°F (70°C) bonded to aluminum	<0.02 (.508)	
Peel Adhesion lb./in.(N/25mm) Stainless Steel	30 Min - 3.5 (16) 1 Week - 4.5 (20)	
Temperature Ranges Application: End Use:	50° to 104°F (10° to 40°C) -40° to 194° F (-40° to 90°C)	
Flammability , Self-extinguishing	ISO 3795	
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.	



Application: Vehicle Wrap
Material: MACmark® TuningFilm 700BF Sublime



MACmark® TuningFilm 700BF Sublime is a polymeric vinyl, available in **matte** and **ultra gloss** finishes. The **B-free® air-egress adhesive** is a high-performance, micro-structured permanent, acrylic adhesive for easy bubble-free application. Outdoor durability is up to eight years

Features and Benefits:

- Transform color of vehicles
- B-free air-egress adhesive for quick and quick bubble-free installation
- Exterior color decoration
- Matte and ultra high-gloss finishes
- Matte finish provide good scratch resistance
- Highly conformable
- Up to 7-8 years outdoor durability
- 3.9-Mil cadmium-free polymeric vinyl film
- 83# Bleached white Kraft liner for stability and layflat

Typical Uses:

- Designed for full and partial vehicle wraps
- Customized vehicle wraps
- Racing and rally stripes

Physical Properties	Typical Values
Thickness , inches (µm)	
Film only	0.0334 (85)
Film plus adhesive	0.0453 (115)
Dimensional Stability (shrinkage) , %	
48 hours @ 158°F (70°C) bonded aluminum	<0.02
Peel Adhesion , lb/in. (N/25 mm)	
180°F Stainless Steel	- 20 min. 3.7 (16)
	- 24 hr 4.1 (18)
	- 1 week 4.6 (20)
Face Material Data , 68°F (20°C)	
Tensile strength lb/in. (Nk/m)	≥ 9 (29)
Elongation %	≥ 150%
Temperature Ranges	
Application:	60° to 104°F (15° to 40°C)
End Use:	-40° to 194° F (-40° to 90°C)
Flammability , Self-extinguishing	ISO 3795
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.

Stock No.	Color	Roll Width x Length	Weight: Pounds
TF	All Colors	60" x 82'	26

		Special Order	Special Order	Special Order
White Gloss TF72900BF		Medium Red Matte TF75800BF		Banana Yellow Matte TF70809BF
Banana Yellow Gloss TF70909BF		Spicy Red Matte TF75827BF		Flash Orange Gloss TF70935BF
Medium Red Gloss TF75900BF		Cyclamen Matte TF75809BF		Scandinavian Blue Matte TF73823BF
Scandinavian Blue Gloss TF73923BF		Vivid Blue Matte TF73811BF		Aubergine Matte TF73838BF
Silver Gloss TF76900BF		Ultramarine Blue Matte TF73812BF		Green Yellow Matte TF74824BF
Black Gloss TF78900BF		Apple Green Matte TF74813BF		Vivid Blue Gloss TF73911BF
White Matte TF72800BF		Charcoal Matte TF78801BF		Silver Matte TF76800BF
Flash Orange Matte TF70835BF		Black Matte TF78800BF		Ultramarine Blue Gloss TF73912BF
				Aubergine Gloss TF73938BF
				Green Yellow Gloss TF74924BF
				Apple Green Gloss TF74913BF
				Charcoal Gloss TF78901BF

B-free®



Application: Vehicle Wrap
Material: MACmark TuningFilm



Application: Game Station
Material: MACmark TuningFilm

Note: Call for a TuningFilms Color Card (MAC2792) for actual colors.



MACmark® TuningFilm Carbon BF is a 3D textured carbon fiber embossed vinyl, available in five colors. The **B-free® air-egress adhesive** is a high-performance, micro-structured permanent, acrylic adhesive for easy bubble-free application. Can be applied over **rivets**.

Features and Benefits:

- Realistic carbon fiber effect on any smooth curved or flat surface
- Applies over rivets
- Resistant to most oils, grease, fuel, salts
- Up to five years outdoor durability
- 5.1-Mil textured cadmium free polymeric vinyl
- B-free air-egress adhesive for quick and quick bubble-free installation
- 80# polycoated layflat liner for stability and layflat

Typical Uses:

- Exterior vehicle decoration/personalization
- Trim accent on consoles, dash on vehicle interior
- Watercraft
- Customization of electronic equipment including:
 - Computers
 - Mobile phones
 - Tablets
 - Game consoles

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.0079 (200)
Dimensional Stability (shrinkage) ,% 48 hours @ 158°F (70°C) bonded aluminum	<0.3
Peel Adhesion , lb/in. (N/25 mm) 180°F Stainless Steel	- 20 min. 2.3 (10) - 24 hr 3.2 (14) - 1 wl 3.4 (15)
Face Material Data , 68°F (20°C) Tensile strength lb/in. (N/15 mm) Elongation %	>12 (40) >150%
Temperature Ranges Application: End Use:	50° to 104°F (10° to 40°C) -40° to 194° F (-40° to 90°C)
Flammability , Self-extinguishing	ISO 3795
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.

Stock No.	Color	Roll Width x Length	Weight: Pounds
TF1088BF	Black	60" x 82'	35
TF1028BF	White	60" x 82'	35
TF1068BF	Silver	60" x 82'	35
TF1078BF	Gold	60" x 82'	35
TF8801BF	Graphite	60" x 82'	35





Application: Vehicle Wrap
Material: MACmark® Iridescent Fuchsia-Green

Call for a TuningFilm Color Card (MAC2792) for actual color swatches.



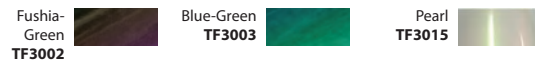
MACmark® TuningFilm Iridescent TuningFilm Iridescent creates a custom, color-changing visual with true "wow" factor. The Pearl produces a reddish and greenish reflection. The Blue-Green and Fuchsia-Green finishes change color as from different viewing angles.

Features and Benefits:

- Conformable cast vinyl with unique finishes
- Applies over corrugated and curved surfaces
- Up to four years outdoor durability
- 3.9-Mil soft cast vinyl film
- 80# polycoated layflat liner for stability and layflat
- Repositionable, user-friendly adhesive

Typical Uses:

- Designed for full and partial vehicle wraps
- Watercraft
- Electronic equipment & furniture decoration
- Racing and rally stripes



Physical Properties	Typical Values	
	Pearl	Fuchsia-Green & Blue-Green
Thickness , inches (µm) Film plus adhesive	0.0053 (135)	0.0053 (135)
Dimensional Stability (shrinkage) ,% 48 hours @ 158°F (70°C) bonded aluminum	<0.2	<0.2
Peel Adhesion , lb/in. (N/25 mm) 180°F Stainless Steel	- 20 min. (16) - 24 hr (20) - 1 wk (25)	(14) (18) (23)
Face Material Data , 68°F (20°C) Tensile strength lb/in. (Nk/m) Elongation %	>(25) >150%	>(25) >150%
Temperature Ranges Application: End Use:	59° to 104°F (15° to 40°C) -40° to 194° F (-40° to 90°C)	
Flammability , Self-extinguishing	ISO 3795	
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.	

Stock No.	Color	Roll Width x Length	Weight: Pounds
TF3002	Fushia-Green	60" x 82'	26
TF3003	Blue-Green	60" x 82'	26
TF3015	Pearl	60" x 82'	26



Application: Vehicle Wrap
Material: MACmark® TuningFilm Textured - Leather



MACmark® TuningFilm Textured are **structured cast vinyls** for dramatic effects on vehicles, electronic equipment and furniture. Available in silver moon, for a hammered effect or black leather.

Features and Benefits:

- Black Leather for real leather appearance
- Silver Moon for hammered effect
- Applies over corrugated and slightly curved surfaces
- Up to five years outdoor durability
- 8.7-Mil soft cast vinyl film
- Repositionable transparent acrylic adhesive
- 80# polycoated layflat liner for stability and layflat

Typical Uses:

- Designed for partial vehicle wraps
- Electronic equipment & furniture decoration
- Racing and rally stripes
- Watercraft



Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.0102 (260)
Dimensional Stability (shrinkage) ,% 48 hours @ 158°F (70°C) bonded aluminum	<0.02
Peel Adhesion , lb/in. (N/25 mm) 180°F Stainless Steel	- 20 min. (12) - 24 hr (15) - 1 week (18)
Face Material Data , 68°F (20°C) Tensile strength lb/in. (N/15 mm) Elongation %	≥ (25) ≥ 80%
Temperature Ranges Application: End Use:	59° to 104°F (15° to 40°C) -40° to 194° F (-40° to 90°C)
Flammability , Self-extinguishing	ISO 3795
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.

Stock No.	Color	Roll Width x Length	Weight: Pounds
TF3102	Black Leather	60" x 82'	29
TF3155	Silver Moon	60" x 82'	30



MACmark® TuningFilm Brushed Metal BF embossed vinyls can give a realistic metal special effect to applications. All five colors available with the patented B-free® air-egress adhesive for fast easy installations.

Features and Benefits:

- Create special effects with five different matte brushed metal colors: Black, Aluminum, Steel, Titanium and Graphite
- Up to five years outdoor durability (Steel - four years, Aluminum - two and a half years)
- 5.5-Mil cadmium-free polymeric vinyl film
- B-free air-egress adhesive for quick and quick bubble-free installation
- 90# polycoated layflat liner for stability and layflat

Typical Uses:

- Designed for full and partial vehicle wraps
- Electronic equipment & furniture decoration
- Racing and rally stripes
- Watercraft

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.0071 (180)
Dimensional Stability (shrinkage) , % 48 hours @ 158°F (70°C) bonded aluminum	<0.03
Peel Adhesion , lb/in. (N/25 mm) 180°F Stainless Steel	- 20 min. (12) - 24 hr (15) - 1 week (16)
Face Material Data , 68°F (20°C) Tensile strength lb/in. (N/15 mm) Elongation %	≥ (25) ≥ 80%
Temperature Ranges Application: End Use:	50° to 104°F (10° to 40°C) -40° to 194°F (-40° to 90°C)
Flammability , Self-extinguishing	ISO 3795
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.

Stock No.	Color	Roll Width x Length	Weight: Pounds
TF16800BF	Brushed Aluminum BF	60" x 82'	30
TF16801BF	Brushed Titanium BF	60" x 82'	30
TF16802BF	Brushed Steel BF	60" x 82'	30
TF16803BF	Brushed Graphite BF	60" x 82'	30
TF18800BF	Brushed Black BF	60" x 82'	30





Application: Walls
Material: MACmark® 8900



Application: Promotional graphics
Material: MACmark 8900



8900PRO is a matte vinyl with removable adhesive specifically designed for wall applications, available in both bright colors for signs and softer colors for environmental graphics. Gloss finish also available in select colors.

Features and Benefits:

- Includes trend setting designer colors used in environmental graphics
- Non-glare mattes for design and signage. Gloss black and white available.
- Excellent dimensional stability
- Up to five years indoors
- Outdoors black and white four years outdoors, colors three years
- Superior cutting and weeding
- 2.8-Mil cadmium-free calendared vinyl
- Removable adhesive cleanly removes after two years from most surfaces
- 83# bleached white Kraft liner for stability and layflat

Typical Uses:

- Home décor and interior design
- Wall words
- Way finding
- Signs
- Window graphics
- P.O.P

Physical Properties	Typical Values
Thickness, inches (µm) Film plus adhesive	0.035 (89)
Dimensional Stability (shrinkage),% 48 hours @ 158°F (70°C) bonded aluminum	<0.10
Peel Adhesion, lb/in. (N/25 mm) Stainless Steel - 30 min. - 1 week	0.9 (4.0) 1.7 (7.5)
Face Material Data, 68°F (20°C) Tensile strength lb/in. (kN/m) Elongation %	>11 (2.0) >150%
Temperature Ranges Application: End Use:	32° to 104°F (0° to 40°C) -40° to 158° F (-40° to 70°C)
Flammability, Self-extinguishing	ISO 3795
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.

Recommended Application Tapes:

- MACtransfer® 210 for medium to large decals
- MACtransfer 220 for small letters and fine lines

Stock No.	Roll Width x Length	Weight: Pounds
CV	48" x 164'	42
CR	24" x 164'	21

Gloss White 8929-00	Light Orange 8908-14	Burgundy 8958-12	Spinach Green 8948-12	Intense Blue 8938-01	Medium Gray 8988-05
Gloss Black 8989-00	Orange 8902-00	Cyclamen 8958-04	Dark Green 8948-04	Cosmic Blue 8938-18	Concrete Gray 8988-11
White 8928-00	Dark Orange 8908-15	Green-Yellow 8948-09	Bahamas Blue 8938-15	Electric Blue 8938-14	Pearl Gray 8988-10
Black 8988-00	Flame Red 8958-03	Lime 8948-10	Turquoise Blue 8938-07	Violet 8938-19	Ivory 8928-05
Lemon Yellow 8908-12	Red 8958-13	Spring Green 8948-07	Turquoise Green 8948-13	Royal Blue 8938-13	Beige 8928-01
Light Yellow 8908-00	Blood Red 8958-01	Kiwi 8948-11	Mint 8948-14	Methylene Blue 8938-20	Nut Brown 8982-04
Yellow 8908-13	Currant Red 8958-07	Matte Green 8948-01	Light Blue 8938-16	Highway Blue 8938-02	Chocolate Brown 8982-02
Buttercup 8908-09	Medium Red 8958-00	Leaf Green 8948-08	Sky Blue 8938-04	Cobalt Blue 8938-17	Gold 8978-00
Sunflower Yellow 8904-00	Camine Red 8958-14	Medium Green 8948-00	Medium Blue 8938-00	Graphite 8988-06	Silver 8968-00

NEW! 8900 Designer Series Colors

Lagoon Blue 8938-39	Water Lily 8948-22	Baby Doll 8958-00	Magnolia 8958-21	Sepia Brown 8982-10	Antique White 8928-16
Pastel Turquoise 8938-60	Pesto 8948-25	Dahlia Pink 8958-19	Antique Violet 8958-23	Silk Grey 8988-00	
Blue Grey 8938-61	Oasis 8948-26	Bishop Purple 8958-20	Mocha 8982-09	Mustard 8908-20	

Note: Colors shown may vary due to the printing process. Call for a 8900PRO Series Color Card (MAC2750) for actual colors.



Application: Signage
Material: MACmark®



Application: Window Graphics
Material: MACmark 8300PRO



8300PRO is a high-gloss intermediate **workhorse vinyl** for most of your flat surface applications. Lasts up to five years outdoors. The white vinyl features a contrasting gray liner for **quick weeding** on complex designs and makes the job easy on your eyes.

Features and Benefits:

- Highest gloss intermediate color vinyl
- Up to five years outdoors for black and white; four years colors
- Superior cutting and weeding
- 2.8-Mil cadmium-free calendared vinyl
- Permanent adhesive
- 83# bleached white Kraft liner for stability and layflat

Typical Uses:

- Promotional signage (flat surfaces)
- Window graphics

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.037 (94)
Dimensional Stability (shrinkage) ,% 48 hours @ 158°F (70°C) bonded aluminum	<0.3
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 20 min. 3.2 (14) - 1 week 4.4 (19)
Face Material Data , 68°F (20°C) Tensile strength lb/in. (N/15 mm) Elongation %	>9.5 (25) >150%
Temperature Ranges Application: End Use:	50° to 104°F (10° to 40°C) -40° to 158° F (-40° to 70°C)
Flammability , Self-extinguishing	ISO 3795
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.

Recommended Application Tapes:

- MACtransfer® 210 for medium to large decals
- MACtransfer 220 for small letters and fine lines

Stock No.	Roll Width x Length	Weight: Pounds
CS - punched	15" x 164'	14
CE	15" x 164'	14
CR	24" x 164'	21
CJ - punched	30" x 164'	28
CF	30" x 164'	28
CV	48" x 164'	42
CY	60" x 164'	53

Gloss White 8329-00	Light Beige 8329-14	Apple Green 8349-03	Chocolate Brown 8383-02	Special Order	
Gloss Black 8389-00	Medium Blue 8339-00	Dark Green 8349-04	Imitation Gold 8383-05	Apricot 8309-16	Flame Red 8359-03
Matte White 8328-00	Highway Blue 8339-02	Bottle Green 8349-05	Terra Cotta 8383-06	Sandstone 8329-13	Raspberry 8359-15
Matte Black 8388-00	Sky Blue 8339-04	Spring Green 8349-07	Dark Gray 8389-01	Almond 8329-15	Mouse Gray 8389-04
Silver 8369-00	Ocean Blue 8339-06	Polo Green 8349-16	Slate Gray 8389-12	Lavender 8339-31	
Gold 8379-00	Turquoise 8339-07	Medium Red 8359-00	Frosty Gray 8389-13	Copenhagen Blue 8339-32	
Orange 8301-00	Royal Blue 8339-13	Blood Red 8359-01	Clear 8399-00	Butterfly Blue 8339-34	
Sunflower Yellow 8303-00	Electric Blue 8339-14	Cyclamen 8359-04		Powder Blue 8339-35	
Medium Yellow 8305-00	Purple Blue 8339-30	Dark Red 8359-06		Nautical Blue 8339-36	
Light Yellow 8309-12	Navy 8339-33	Passion Red 8359-08		Seafoam Green 8349-15	
Sandstone 8329-13	Medium Green 8349-00	Burgundy 8359-12		Vibrant Green 8349-17	

Note: Colors shown may vary due to the printing process. Call for a 8300PRO Series Color Card (MAC2761) for actual colors.



Application: Frosted glass
Material:



To avoid scratching the ultra clear film, always use a soft squeegee.



Glass Décor 600 is transparent indoor film pre-printed with decorative patterns suited for interior glass partition or internal window surface. Ultra clear permanent adhesive and clear polyester liner for see through clarity on glass. four patterns: Rice paper, small lines, lines and squares.

Features and Benefits:

- Four patterns
- Lines, small lines and squares
- Rice paper design gives a oriental look
- Etched glass appearance without etched glass cost
- Up to five years indoors only
- Superior cutting and weeding
- 1.5-Mil clear polyester
- Ultra-clear permanent adhesive
- 1.5-Mil stabilized clear polyester liner

Typical Uses:

- Glass partition in restaurants
- Offices and retail store windows
- Events and trade shows
- Residential design
- Interior applications only

Physical Properties	Typical Values
Thickness , inches (µm)	
Film only	0.0015 (38)
Film plus adhesive	0.0045 (115)
Dimensional Stability (shrinkage) , %	
48 hours @ 158°F (70°C)	
bonded aluminum	<0.2
Peel Adhesion , lb/in. (N/25 mm)	
Stainless Steel	
- 30 min.	3.0 (13)
- 24 hr	3.9 (17)
- 1 week	4.3 (19)
Face Material Data , 68°F (20°C)	
Tensile strength lb/in. (N/15 mm)	>22 (100)
Elongation %	>100%
Temperature Ranges	
Application:	50° to 104°F (10° to 40°C)
End Use:	-40° to 194° F (-40° to 90°C)
Shelf Life:	
Two years when stored between 60-80°F (15-25°C) and 50% RH or less.	

Stock No.		Roll Width x Length	Weight: Pounds
CV60100	Rice Paper	48" x 164'	42
CV60200	Small Lines	48" x 164'	42
CV60300	Large Lines	48" x 164'	42
CV60400	Large Squares	48" x 164'	42





Application: Frosted glass
Material: MACmark Glass Décor 700

Recommended Application Tapes:

- MACtransfer® 210 for medium to large decals
- MACtransfer 220 for small letters and fine lines

Note: Colors shown shown may vary due to the printing process. Call for a Specialty Films Color Card (MAC2759) for actual colors.



Glass Décor 700 is a translucent vinyl providing either **frosted** or **etched look** to clear glass surfaces. Two matte finishes: frosted and dusted and five matte frosted colors. Ideal for decorating glass windows, mirrors or doors for an etched, frosted or sandblasted look. Provides privacy accents without blocking natural light.

Features and Benefits:

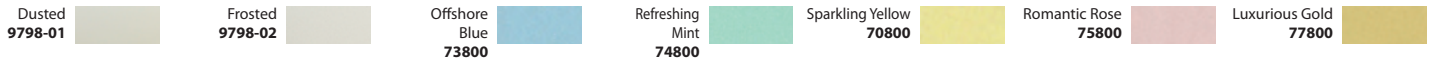
- Significant cost savings over etching or sandblasting
- Frosted and Dusted finishes
- Offshore Blue, Refreshing Mint, Sparkling Yellow, Romantic Rose and Luxurious Gold
- Up to five years indoor and outdoor durability
- Excellent layflat characteristics on plotter
- 3.0-Mil cadmium-free translucent vinyl
- Durable transparent clear permanent adhesive with excellent wet-out characteristics
- 83# bleached white Kraft liner with squared red backprinting to facilitate positioning

Typical Uses:

- Glass partition in restaurants
- Shopping malls and retail stores
- Offices and other places of business
- Events and trade shows
- Residential design
- Privacy accents without sacrificing natural light

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.0045 (115)
Dimensional Stability (shrinkage) ,% 48 hours @ 158°F (70°C) bonded aluminum	<0.1
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 3.2 (14) - 24 hr 3.9 (17) - 1 week 4.3 (19)
Face Material Data ,68°F (20°C) Tensile strength lb/in. (N/15 mm) Elongation %	>25 >80%
Temperature Ranges Application: End Use:	50° to 104°F (10° to 40°C) -40° to 194° F (-40° to 90°C)
Flammability , Self-extinguishing	ISO 3795
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.

Stock No.	Roll Width x Length	Weight: Pounds
CR	24" x 164'	21
CV	48" x 164'	42
CY* NEW!	60" x 164'	53
* Dusted & Frosted Only		





Application: Window Graphics
Material: MACmark® MACcrystal

3 yr
GLOSS
finish

FLAT
surface

Permanent

MACcrystal 8400 create a stained-glass effect with specially designed **transparent** vinyls in a variety of bright colors for window decoration and use in illuminated signs.

Features and Benefits:

- Glossy transparent vinyl
- Color uniformity day or night
- Up to three years outdoors
- 3.1-Mil gloss transparent vinyl
- Clear permanent adhesive
- 83# Bleached white Kraft liner

Typical Uses:

- Windows and glass
- Translucent illuminated signs
- Environmental Graphics

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.0042 (105)
Dimensional Stability (shrinkage) ,% 48 hours @ 158°F (70°C) bonded aluminum	<0.5 (0.1.27)
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 3.2 (14) - 24 hr 4.1 (18) - 1 week 4.4 (19)
Face Material Data ,68°F (20°C) Tensile strength lb/in. (N/15 mm) Elongation %	>11.0 (30) >150%
Temperature Ranges Application: End Use:	50° to 104°F (10° to 40°C) -40° to 194° F (-40° to 90°C)
Flammability , Self-extinguishing	ISO 3795
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.

Stock No.	Roll Width x Length	Weight: Pounds
CV	48" x 82'	43

Deep Yellow 8407-01	Medium Blue 8437-03	Aqua 8437-06	Light Green 8447-04	Light Red 8457-02	Light Grey 8487-01
Orange 8407-03	Deep Blue 8437-04	Medium Green 8447-01	Yellow Green 8447-05	Fushia 8457-04	Grey 8487-02
Light Blue 8437-02	Heaven Blue 8437-05	Leaf Green 8447-03	Deep Red 8457-01	Rose 8457-05	

MACmark® Lustres



Application: Vehicle Graphics
Material: MACmark® Lustres

Recommended Application Tapes:

- MACtransfer® 210 for medium to large decals
- MACtransfer 220 for small letters and fine lines

5 yr
GLOSS
finish

CURVED
surface **Permanent**

6400 Iridescent Lustre designed for high profile applications over flat to complex curves like **rivets, corrugations** and other irregular surfaces. 2.0-Mil cadmium-free cast vinyl offering a **pearly, anodized finish** that gleams in the sun.

Features and Benefits:

- 2.0-mil cast vinyl
- Permanent, high-bond solvent-acrylic adhesive
- Five year outdoor durability
- Flat, curved, corrugated or riveted surfaces
- 78# Bleached white Kraft liner for good stability and layflat

Typical Uses:

- OEM/aftermarket automotive
- Recreation vehicle and marine

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.0032 (81)
Dimensional Stability (shrinkage) ,% 48 hours @ 158°F (70°C) bonded aluminum	<0.1
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 20 min. 2.8 (12.7) - 24 hr 4.0 (17.8)
Face Material Data ,68°F (20°C) Tensile strength lb/in. (N/m) Elongation %	>7.5 (13.00) >100%
Temperature Ranges Application: End Use:	40° to 104°F (5° to 40°C) -50° to 225° F (-45° to 107°C)
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.

Stock No.	Roll Width x Length	Weight: Pounds
CV	54" x 150'	42

Special Order*

Pearl
6429-00

Special Order*

Fire Red
6459-00

Special Order*

Fuchsia
6459-10

Special Order*

Forest Green
6449-02

Special Order*

Eucalyptus
6439-10

Special Order*

Aqua
6439-04

Special Order*

Shiny Copper
6401-10

Dandelion
6409-01

Crimson
6459-01

Mauve
6459-20

Caribbean Blue
6449-10

Bold Blue
6439-02

Grape
6439-30

Granite
6489-02

Note: Call for a Specialty Films Color Card (MAC2759) for actual colors.

*14 Day lead time on special orders.



Application: Marine Markings
Material: MACmark® Sparkle Metallic

Note: Colors shown shown may vary due to the printing process. **Call for a Specialty Films Color Card (MAC2759) for actual colors.**

5 yr
HIGH GLOSS
finish

CURVED
surface **Permanent**

6700 Sparkle Metallic is a premium film with a high concentration of **metallic flakes**, designed for high profile applications over flat to complex curves like **rivets, corrugations** and other **irregular surfaces**.

Features and Benefits:

- 3.0-Mil high-gloss cadmium-free cast vinyl
- Five year outdoor durability
- Permanent solvent acrylic adhesive
- 78# Bleached white Kraft liner for good stability and layflat

Typical Uses:

- Fleet & Marine marking
- Container decals
- Equipment identification

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.0040 (101)
Dimensional Stability (shrinkage) ,% 48 hours @ 158°F (70°C) bonded aluminum	<0.2
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 2.8 (12.5) - 24 hr 4.0 (17.5)
Face Material Data ,68°F (20°C) Tensile strength lb/in. (N/m) Elongation %	>7.5 (1300) >80%
Temperature Ranges Application: End Use:	40° to 104°F (5° to 40°C) -50° to 225° F (-45° to 107°C)
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.

Stock No.	Roll Width x Length	Weight: Pounds
CV	48" x 150'	42

Special Order

Sparkle
6729-00

Special Order

Smoky Quartz
6789-00

Special Order

Azurite
6739-15

Special Order

Colbalt Blue
6739-00

Special Order

Cinnabar
6759-00

Special Order

Beryl
6749-15

Special Order

Rose Quartz
6759-09

Special Order

Aventura
6783-05

Light Onyx
6769-00

Topaz
6779-00

Sapphire Blue
6739-25

Emerald Green
6749-00

Fire Opal
6759-06

Amethyst
6739-1

Dk Amethyst
6759-16



Application: Vehicle Wrap
Material: MACmark® 5700

Note: Colors shown shown may vary due to the printing process. **Call for a Specialty Films Color Card (MAC2759) for actual colors.**



5700 Reflective are flexible, engineering grade films with excellent night and day visibility. Easy to cut, easy to weed, 5700 Reflectives are also solvent and UV printable. A 92# white, polycoated LayFlat™ liner offers stability and layflat qualities.

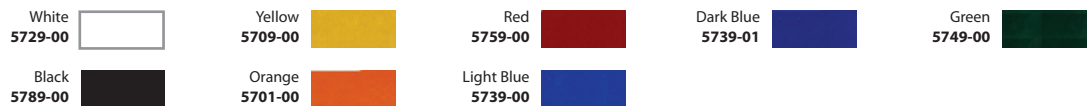
Features and Benefits:

- Excellent day and night visibility
- Very flexible, can be applied over rivets and corrugated surfaces
- 5-7 Year outdoor durability

Typical Uses:

- Vehicle markings
- 24 Hour-a-day eye catching identification

Stock No.	Roll Width x Length	Weight: Pounds
CS punched	15" x 150'	
CE	15" x 150'	14
CR	24" x 150'	21
CJ punched	30" x 150'	
CF	30" x 150'	28
CV	48" x 150'	42



Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.006 (150)
Dimensional Stability (shrinkage) ,% 48 hours @ 158°F (70°C) bonded aluminum	<0.3
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 4.6 (20) - 1 week 5.9 (26)
Face Material Data , 68°F (20°C) Tensile strength lb/in. (Nk/m) Elongation %	>8.5 (≥1.5) >100%
Temperature Ranges Application: End Use:	50° to 104°F (10° to 40°C) -4° to 194° F (-20° to 90°C)
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.



Application: Decals
Material: MACmark® Fluorescents

Recommended Application Tapes:

- MACtransfer 210 for medium to large decals
- MACtransfer 220 for small letters and fine lines

Note: Colors shown shown may vary due to the printing process. **Call for a Specialty Films Color Card (MAC2759) for actual colors.**



6800 Fluorescents are **short-term cast fluorescent** vinyl designed for **six month** outdoor use. Available with a permanent solvent acrylic adhesive these vinyls are excellent for short-term promotional use on windows, P.O.P., display panels, exhibit walls and screen printed decals.

Features and Benefits:

- 2.3-Mil cast vinyl
- Permanent solvent acrylic adhesive
- Six month outdoor durability
- Semi-gloss finish
- Flat, curved or corrugated surface installation

Typical Uses:

- Short-term indoor or outdoor applications
- P.O.P.
- Display panels
- Exhibit walls
- Screen printed decals
- High-performance Racing

Physical Properties	Typical Values
Thickness , inches (µm) Film plus adhesive	0.0035 (90)
Dimensional Stability (shrinkage) ,% 48 hours @ 158°F (70°C) bonded aluminum	<0.25
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 3.2 (14) - 24 hr 4.5 (20)
Face Material Data , 68°F (20°C) Tensile strength lb/in. (N/m) Elongation %	>8.57 (1500) >9.5 (0.97) >100%
Temperature Ranges Application: End Use:	40° to 104°F (5° to 40°C) -50° to 225° F (-45° to 107°C)
Shelf Life:	Two years when stored between 60-80°F (15-25°C) and 50% RH or less.

Stock No.	Roll Width x Length	Weight: Pounds
CV	48" x 150'	42





Application: Storefront Advertising
Material: MACtransfer

MACtransfer® 210 is a translucent saturated paper stock coated on one side with a medium tack, pressure-sensitive adhesive. It is designed to assist in the transfer and application of **medium and large** size pressure-sensitive decals that have been die cut into letters, legends, striping and logos. It also has a general application use in the protection of most finished or polished surfaces during fabrication, storage, shipment and handling.

Features and Benefits:

- Translucent paper makes viewing graphic easy.
- Medium tack adhesive to aid in transfer of medium and large decals or graphics.

Typical Uses:

- Transfer of diecut letters and decals to final substrate
- Protection of polished surfaces

Physical Properties	Typical Values
Peel Adhesion, lb./in. (N/25 mm) Stainless Steel - 20 min.	11 (3.1)
Tensile, lb./in.	11.5
Elongation, %	2.5
Tear, grams	50
Thickness, mils (um)	4.3 (16)
Shelf Life: Two years when stored between 60-80°F (15-25°C) and 50% RH or less.	

Stock No.	Roll Width x Length	#/Ctn	Weight: Pounds
ST1060	60" x 300'	1 Roll	32
ST1054	54" x 300'	1 Roll	28
ST1048	48" x 300'	1 Roll	25



Application: Storefront Advertising
Material: MACtransfer

MACtransfer 220 is a translucent saturated paper stock coated on one side with a high-tack, pressure-sensitive adhesive. It is designed to assist in the application and transfer of **small and medium** sized, pressure-sensitive decals that have been die cut into letters, legends, striping and logos. It also has a general application use in the protection of most finished or polished surfaces during fabrication, storage, shipment and handling.

Features and Benefits:

- Translucent paper makes viewing graphics easy.
- High-tack adhesive to aid in transfer of small- and medium-sized decals.

Typical Uses:

- Transfer of diecut letters and decals to final substrate
- Protection of polished surfaces

Physical Properties	Typical Values
Peel Adhesion, lb./in. (N/25 mm) Stainless Steel - 20 min.	7.3 (2.0)
Tensile, lb./in.	14.6
Elongation, %	2.2
Tear, grams	50
Thickness, mils (um)	3.9 (100)
Shelf Life: Two years when stored between 60-80°F (15-25°C) and 50% RH or less.	

Stock No.	Roll Width x Length	#/Ctn	Weight: Pounds
ST2048	48" x 300'	1 Roll	25
ST2030	30" x 300'	1 Roll	15
ST2024	24" x 300'	2 Roll	24
ST2014	14" x 300'	4 Roll	28



Application: Wall mural
Material: MACmask

MACmask® CM8400 is a 3.2-mil soft, gray, matte transparent vinyl film coated on one side with a low bonding, rubber-based, pressure-sensitive adhesive with an 83# white Kraft release liner. The adhesive is specifically designed for use on canvas and other flexible facestocks to mask large areas cost effectively and provide easy removability.

Features and Benefits:

- Textured surface reduces over-spray

Typical Uses:

- Masking off for wall murals.
- Masking off for vehicle graphics

Physical Properties	Typical Values
Peel Adhesion, lb./in. (N/25 mm) Stainless Steel - 30 min. - 1 week	0.60 (2.5) 1.00 (4.4)
Elongation, %	200.00
Thickness, mils (um)	0.0035 (88.8)
Shelf Life: Two years when stored between 60-80°F (15-25°C) and 50% RH or less.	

Stock No.	Roll Width x Length	#/Ctn	Weight: Pounds
CM8424	24" x 164'	1 Roll	21
CM8448	48" x 164'	1 Roll	42
CM8460	60" x 164'	1 Roll	53

Specialty Tapes - Technical



Material: GS-Series

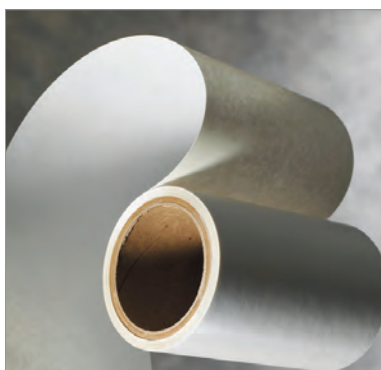
MACfilm® GS-Series Strip Adhesives

are made up of an **unsupported SBR pressure-sensitive adhesive, specially coated by MACtac using a patented, proprietary process** and wound on a 60# densified kraft release liner. GS-Series adhesive provides **very aggressive tack and peel adhesion along with superior shear strength**. The adhesive bonds to a wide variety of materials including low energy surfaces such as polyethylene and polypropylene. The standard thickness of 5- to 60-mils provides the mass needed to establish secure bonds to uneven or irregular surfaces.

Physical Properties	Typical Values
Quick Tack , lb./sq. in. Stainless Steel	20+
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 22+
Shear , Hours to fail Stainless Steel - 1000 g/sq. in @ 72°F	300+
Thickness , inches only adhesive	.020 or .035
Temperature Ranges	
Application:	Above 50°F (10°C) for best performance
End Use:	0° to 180° F (-18° to 82°C)
Shelf Life:	
One year when stored at 75°F (24°C) and 50% relative humidity or less.	

Stock No.	Roll Width x Length	Thickness
GS9020*	1" x 200'	20 mils
GS9035*	3/4" x 200'	35 mils

* 8 rolls/ctn, 1 ctn minimum



Material: MACbond

MACbond® IB1178XT consists of a **thin polyester film coated on both sides with a general purpose, rubber-based pressure-sensitive adhesive**. The product is supplied self-wound on a 60#densified, semi-bleached kraft liner. Designed for **general purpose bonding applications such as in the gasket, seal and trim markets**. Typically used for bonding to foams, felts, cloths, primed wood, paper, metal, plastics and most low or non-plasticized substrates. It has an excellent balance of economy versus performance and can be used in many applications as an aid to assembly. The polyester carrier provides dimensional stability and superior die cutting properties.

Physical Properties	Typical Values
Quick Tack , lb./sq. in. Stainless Steel	Unwind/Liner 10.0/11.0
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 10.0/11.0
Shear , Hours to fail Stainless Steel - 1000 g/sq. in @ 72°F	300+/300+
Thickness , inches only adhesive	.0034
Temperature Ranges	
Application:	Above 50°F (10°C) for best performance
End Use:	0° to 150° F (-18° to 66°C)
Shelf Life:	
One year when stored at 75°F (24°C) and 50% relative humidity or less.	

Stock No.	Roll Width x Length
MB1182	54" x 750'

MACbond IB1178XT consists of a **thin non-oriented, polypropylene film coated on both sides with a high-performance, rubber-based pressure-sensitive adhesive**. The adhesive is protected by a release treated, 60# densified kraft liner. Designed to offer unusually **high-tack and peel adhesion without sacrificing shear resistance**. The heavy coated weight of adhesive provides **excellent bonds to both smooth and irregular surfaces**. The non-oriented carrier membrane permits good conformability.

Physical Properties	Typical Values
Quick Tack , lb./sq. in. Stainless Steel	Unwind/Liner 4.5/6.0
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel	- 30 min. 12.0/11.5
Shear , Hours to fail Stainless Steel - 1000 g/sq. in @ 72°F	300+/300+
Thickness , inches only adhesive	.0066
Temperature Ranges	
Application:	Above 50°F (10°C) for best performance
End Use:	0° to 150° F (-18° to 66°C)
Shelf Life:	
One year when stored at 75°F (24°C) and 50% relative humidity or less.	

Stock No.	Roll Width x Length
MB1200	54" x 750'



Material: MACmount

MACmount® MM-1800

consists of **1/32" white, closed cell polyethylene foam coated on both sides with a high shear strength rubber-based pressure-sensitive adhesive.** The adhesive is protected by two side release treated, polycoated natural kraft liner. **Use where the ultimate in holding power is desired for indoor applications.** This aggressive adhesive bonds to most surfaces, including low energy materials, such as polyethylene and polypropylene. The 1/32" foam carrier provides a gap filling function that aids in the joining of uneven or irregular surfaces.

Physical Properties	Typical Values
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel - 30 min.	Unwind/Liner --/--
Shear , Hours to fail Stainless Steel - 1000 g/sq. in @ 72°F	300+/300+
Thickness , inches only adhesive	.036
Temperature Ranges	
Application:	Above 50°F (10°C) for best performance
End Use:	0° to 150° F (-18° to 66°C)
Shelf Life: One year when stored at 75°F (24°C) and 50% relative humidity or less.	

Stock No.	Roll Width x Length
MM1800	54" x 216'

MACmount MM-1810 consists of **1/16" white, closed cell polyethylene foam coated on both sides with a high shear strength rubber-based pressure-sensitive adhesive.** The adhesive is protected by two side release treated, polycoated natural kraft liner. **Generally used where the ultimate in holding power is desired for indoor applications.** This aggressive adhesive bonds to most surfaces, including low energy materials such as polyethylene and polypropylene. The 1/16" foam carrier provides a gap filling function that aids in the joining of uneven or irregular surfaces.

Physical Properties	Typical Values
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel - 30 min.	Unwind/Liner --/--
Shear , Hours to fail Stainless Steel - 1000 g/sq. in @ 72°F	300+/300+
Thickness , inches only adhesive	.066
Temperature Ranges	
Application:	Above 50°F (10°C) for best performance
End Use:	0° to 150° F (-18° to 66°C)
Shelf Life: One year when stored at 75°F (24°C) and 50% relative humidity or less.	

Stock No.	Roll Width x Length
MM1810	54" x 108'



UGlu® is made up of an unsupportive, rubber-based, pressure-sensitive adhesive, specially coated by MACtac®. 60# Kraft liner with dual 1/4" ungummed edges. UGlu has an aggressive tack and peel adhesion along with superior shear strength. The standard adhesive thickness of 20-mils provides the mass needed to establish secure bonds to uneven, irregular and dissimilar surfaces. UGlu is non-toxic (ASTM D4236) and acid free.

Features and Benefits:

- Non-toxic and acid free
- Instant bond and permanent hold
- Waterproof and weatherproof
- Bond on rough or uneven surfaces

Typical Uses:

- Bonds to many smooth and rough surfaces
- DIY projects
- Arts and crafts

Physical Properties	Typical Values
Quick Tack , lb./sq. in. Stainless Steel	4.5
Peel Adhesion , lb/in. (N/25 mm) Stainless Steel - 30 min.	5.0
Shear , Hours to fail Stainless Steel - 1000 g/sq. in @ 72°F	300+
Thickness , inches only adhesive	.005
Temperature Ranges	
Application:	Above 50°F (10°C) for best performance
End Use:	-40° to 250° F (-40° to 121°C)
Shelf Life: One year when stored at 75°F (24°C) and 50% relative humidity or less.	

Stock No.	Roll Width x Length	#/Carton
MTR101	1" x 3"	8 Strips
MTR900	1" x 3"	200 Strips
MTR501	1" x 60"	1 Roll

	Description
Open-Image Warranty™	MACtac's way of keeping warranty matters simple. We understand you have a large number of options available for making graphics for an ever expanding variety of applications. When it comes to making graphics with MACtac's media you are covered.
TA2102 IMAGin® RoughRap™ Installation Guide	Learn the proper way to install graphics to rough or textured surfaces to create an outstanding visual display.
TA2103 B-free® Watercraft Graphics Installation Guide	Learn the proper techniques for installing marine graphics that will last using B-free™ digital media.
TA2104 MACmark® 8900 Series Application Guide	MACal® 8900Pro is a unique intermediate film with up to 4 years outdoor life. The product can be applied at temperatures down to 32° and can be cleanly removed for up to 2 years when you follow the directions in the PDF to the left.
TA2105 Application Checklist	MACtac's new application checklists helps you make sure you cross all the T's and dot all the I's before beginning your project.
TA2106 IMAGin DecoArt™ DecoSatin™ Application Guide	Step by step directions for installing DecoArt DecoSatin pressure-sensitive top-coated fabric for all mural applications.
TA2041 Archivability	Archival or permanent pressure-sensitive paper products
TA2501 B-free Application Guide	Our micro-structured air-egress technology provides the best opportunity for a successful application!
TA2063 Cleaning PERMACOLOR® Laminated Images	MACtac product recommendations for CBS Outdoors.
TA2044 Lamination Procedures	PERMACOLOR provides fast, efficient processing through cold roll lamination techniques without the need for heat, drying or messy liquid coating operations.
TA2010 Cutting PermaFlex®	Trimming PermaFlex® laminated images.
TA2032 General Surface Preparation	Surface preparation is a critical step towards successful vinyl graphic installations. This Technical Assistance Guide provides the proper procedures for cleaning and preparing various surfaces for optimized pressure-sensitive graphic applications.
TA2500 Graphics Application to Drywall	Pressure-sensitive graphics in drywall applications are difficult at best for a range of reasons. In this Technical Assistance Guide, we give recommendations for the best chance of success.
TA2040 How to make Floor Graphics	The MACtac Floor Graphic System consists of performance-matched overlaminates and base films for all printing methods, as well as installation assistance. Simply answering the questions in this guide will help you select the right components for your floor graphic application and ensure a successful installation.
TA2017 Material Safety Data Sheets	MSDS Sheets for MACtac Products.
TA2076 Outgassing Prevention	Plastic sheet pre-treatment for the reduction or elimination of out-gassing.
TA2037 Rolling and Shipping Graphics	MACtac studies and field surveys with numerous customers using PERMACOLOR laminates in Roll Label Graphic applications, leads MACtac to make recommendations for rolling and shipping laminated images.
TA2034 Vinyl Graphics Removal	Most vinyl graphic challenges center on application and adhesion. However, there comes a time when vinyl graphic has outlived its purpose and must be removed. This Guide contains the steps to lead you through the removal process.
TA2100 Digital Printing 101	No matter what type of digital printer you have there are some basic steps to follow that will insure a quality print for every job.
TA2101 Wrap Care	Follow these recommendations made by industry experts to keep your wrap in excellent condition.

MAC #	Description	MAC #	Description
MAC1766	MACmark Cut Vinyl Application Guide	MAC2808	IMAGin Wide-Format Media Quick Reference Poster
MAC2597	MACmark® Marking Films Product Guide	MAC2809	MACmark Window Films
MAC2685	IMAGin® Digital Media Product Guide	MAC2631	MACmark Colors Poster
MAC2703	REBEL™ Product Guide	MAC2830	PERMACOLOR Mounting Films Product Guide
MAC2705	PERMACOLOR® Product Guide	MAC2831	wallNOODLE/ROODLE Product Guide
MAC2708	PERMACOLOR Floor Graphics Product Guide	MAC2842	Window Graphics Guide
MAC2719	B-free® Digital Media Product Guide	MAC2897	Marine Product Guide
MAC2805	Wall Graphics Media Product Guide		

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