IMAGin® by MACtac®   REBEL® MULTI-PRINT MEDIA   PERMACOLOR®   MACmark®

Graphic Idea Book | Digital Media, Multi-Print Media, Overlaminates, Mounting Films & Marking Films

walls   windows   floors   vehicles   signage

November 2017

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Mactac Graphic Products

IMAGin® Digital Printing   page 5

REBEL® Multi-Print Media   page 22

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PERMACOLOR® Overlaminating/Mounting   page 29

Resources   page 50

MACmark® Marking Films   page 51

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

Mactac, 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, PG7000 Series and innovative ColorGard® LUV 8000 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.
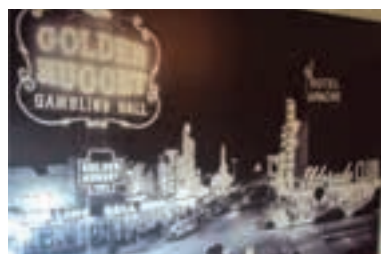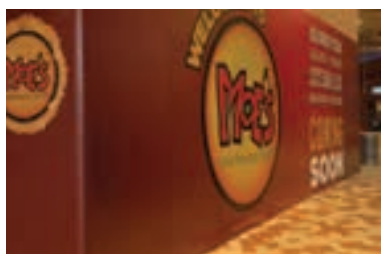
IMAGin®

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®

11 Unique 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 product's suitability, including printability, adhesion and removal characteristics for the application. Please consult the Product Performance Guide at www.mactac.com 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.

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3

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 ensure 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 choose 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 ensure 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 ensure 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 District Sales Manager
2. Customer Service at 800-321-8834
3. Inside Sales at 866-622-8223
4. www.Mactac.com 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.

Features and Benefits:

- Full range of widths from 30-64"
- Digital films compatible with a wide range of popular OEM and after-market inks, including latex and UV
- 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 mactac.com.
- 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

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5

IMAGin® by MACtac® — Digital Imaging Media
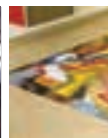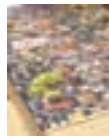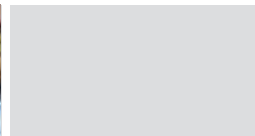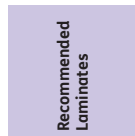
Product Series	Description	Windows	Indoor Floors	Point-of-purchase/Indoor	Trade Show	Full & Partial Fleet Wraps	Full & Partial Vehicle Wraps
High-Performance Ink jet Media							
B•free® Gruv™ - GVC929BFD	2.0-mil gloss white highly conformable vinyl			■		■	■
B•free Gruv- GV729BFD	2.7-mil gloss white high-performance vinyl			■	■	Partial	Partial
JT5728P	3.1-mil translucent vinyl	■		■	■		
B•free JT5796MBF	3.1-mil frosted translucent vinyl	■		■			
B•free JT5798MBF	3.1-mil dusted translucent vinyl	■		■			
B•free JT5999MBF	3.1-mil gloss clear vinyl	■		■	■		
REBEL® X - RB528H	4.0-mil matte white vinyl			■	■		
REBEL - RB528P/529P*	4.0-mil matte/gloss white vinyl			■	■		
REBEL - RB528R/529R*	4.0-mil matte/gloss white vinyl		■	■	■		
REBEL - RB599R	4.0-mil gloss clear vinyl	■	■	■	■		
REBEL - RB599H	4.0-mil gloss clear vinyl			■	■		
REBEL - RB428P/429P*	4.0-mil matte/gloss white vinyl			■	■		
REBEL - RB228P/228R	3.4-mil matte white vinyl			■	■		
Intermediate Ink jet Media							
JT5829P/5828P	3.7-mil gloss/matte white intermediate vinyl			■	■		
JT5829R/5828R	3.7-mil gloss/matte white intermediate vinyl		■				
JT5828HTO	3.7-mil matte white intermediate vinyl		Carpet	■	■		
B•free Gruv - GVC529BFD	3.0-mil gloss white intermediate vinyl			■	■		
B•free Gruv - GV428BFD/429BFD	3.0-mil matte/gloss white intermediate vinyl			■	■		
B•free Gruv - GV429R	3.0-mil gloss white intermediate vinyl			■	■		
PVG828P/829P	3.9-mil matte/gloss white, calendered PVC film			■	■		
PVG828R/829R	3.9-mil matte/gloss white, calendered PVC film		■	■	■		
JT828P/829P/899R	3.1-mil matte/gloss white, 3.1-mil clear, calendered PVC film			■	■		
IMAGin Verde™ - VM3209R	2.0-mil gloss clear polyester	■		■	■		
Specialty Ink jet Media							
StreetRap™ - STR328	3.2-mil matte white vinyl			■	■		
wallNOODLE® - WN628	6.0-mil matte white semi-rigid vinyl	■		■	■		
wallNOODLE Permanent	6.0-mil matte white semi-rigid vinyl			■	■		
IMAGin ROODLE™ - RO628	6.0-mil matte white semi-rigid vinyl	■		■	■		
IMAGin DecoFresco™	8.0-mil textured vinyl	■		■	■		
IMAGin DecoMural™	8.0-mil woven canvas textured vinyl	■		■	■		
RoughRAP® - RR100	2.1-mil gloss white highly conformable vinyl				■		
IMAGin DigiTrans™ - JDT429	4.0-mil gloss white transit vinyl			■		Partial Decals	Partial Decals
WindowView® - WV159	8.0-mil white perforated vinyl, 50 percent perforated	■					Window
WindowView - WV139	6.0-mil white perforated vinyl, 30 percent perforated	■					Window
WindowView - WV129	6.0-mil white perforated vinyl, 40 percent perforated	■					Window
WindowView Cling - WVC109/199	Opaque white/Clear Static Cling Vinyl	■					Window

Multi-Print Media

Boats	Billboard	Museum	Light Box	Bus	Unsealed Concrete	Walls	Adhesive / Liner / Durability	PERMACOLOR RAYZor LF3600 Series	PERMACOLOR Enhancers 6300 Series	PermaFlex IP6200 Series, PF6300, PF6400, PF6500 & PF6600 Series	PermaGard Series	ColorGard LUV Series	PERMACOLOR PromoGard Series
				■		■	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 high-tack, 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	■					
	■						Permanent, clear acrylic / 90# Polycoated Superflat™ / 5 years					■	■
	■						Permanent/Removabl, clear acrylic / 90# Polycoated lay flat / 2 years					■	■
	■	■				■	Permanent, opaque acrylic / 86# Kraft / 4 years		■	■	■	■	■
	■	■		■			Removable, opaque acrylic / 86# Kraft / 4 years		■	■		■	■
	■						High-tack permanent, opaque acrylic / 86# Kraft / 4 years	■	■			■	■
	■					■	Aggressive Bubble-free, opaque acrylic / 98# PCK / 5 years	■	■			■	■
	■					■	Permanent Bubble-free, opaque acrylic / 86# Kraft / 4 years					■	■
	■						Removable Bubble-free, opaque acrylic / 98# PCK / 4 years	■	■			■	■
	■												
	■												
	■						Permanent/Removable, clear acrylic						
							Permanent, clear acrylic / 1.4-mil Clear Polyester / 2 years						
					■	Outdoor	Aggressive high-tack, clear acrylic / 96# PCK / 6 months			floor		■	
		■				■	Removable, repositionable micro-sphere / 90# PE Coated Kraft / 6 months - 1 year						
		■				■	Permanent micro-sphere / 90# PE Coated Kraft / 6 months - 1 year					■	
		■				■	Removable, repositionable / 90# PCK / 1 year					■	
		■				■	Clear, removable acrylic / 90# Polycoated / 2-3 years						
		■				■	Clear, permanent acrylic / 74# Polycoated liner/ 5-7 years						
		■			■	■	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	■					
							Removable, static cling / 8.0-mil White PE Liner / 6 months						

Recommended Laminates

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GVC929BFD Gloss White Full Wrap Media

Media: 2.0-mil Gloss White, Soft Cast PVC Film

Adhesive: Air-egress, Quick-building, Permanent, Opaque, Acrylic Pressure-sensitive

Liner: 98# Polycoated Liner
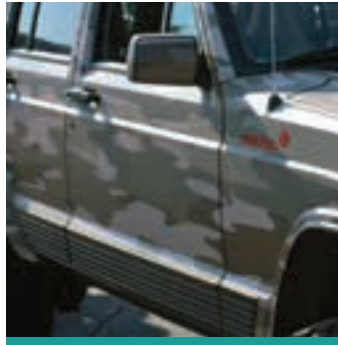
walls **vehicles**

Durability
9 yr

Finish
GLOSS finish

Adhesive
opaque Permanent air egress

Special Features
CURVED surface

Features and Benefits:
- Nine year outdoor durability
- Air-egress allows for bubble-free applications
- Repositionable 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
- Vehicle wraps

Use with:
- PERMACOLOR® RAYZor™ - pg 32
- PERMACOLOR Enhancers - pg 33

Physical Properties		Typical Values
Peel Adhesion, lb./in.		
180° on Glass	- 15 min	**1.8**
	- 24 hr	**2.3**
Quick Tack on Glass, lb./in2		**2.0**
Dimensional Stability (shrinkage), %		
48 hours @ 158°F (70°C)		**max 0.1**
Temperature Ranges		
Minimum Application:		**55°F** (+12°C)
End Use:		**-50° to 225°F**
		(-48° 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
GVC929BFDW54	54" x 150'	40

GV729BFD Gloss White Partial Wrap Media

Media: 2.8-mil Gloss White, Soft Calendered PVC Film

Adhesive: Air-egress Quick-building, Permanent, Opaque, Acrylic Pressure-sensitive

Liner: 98# Polycoated Liner

walls **vehicles**

Durability
7 yr

Finish
GLOSS finish

Adhesive
opaque Permanent air egress

Special Features
CURVED surface

Features and Benefits:
- Seven year outdoor durability
- Air-egress adhesive for fast bubble-free application

Typical Uses:
- Advertising & promotional application
- Long-term indoor & outdoor signage
- Partial vehicle wraps

Use with:
- PERMACOLOR RAYZor - pg 32

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:		**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
GV729BFDW54	54" x 150'	40

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JT5728P Matte White Backlit Media

Media: 3.1-mil Translucent, Matte White Vinyl

Adhesive: Permanent, Clear, Acrylic Pressure-sensitive

Liner: 86# Kraft Liner

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

Typical Uses:
- Illuminated signs
- 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:	**50°F** (+10°C)
End Use:	**-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

Durability 7yr

Finish MATTE finish

Adhesive Permanent

Special Features FLAT surface

signage   windows

JT5796MBF Frosted

Media: 3.1-mil Translucent, Matte Frosted Polymeric PVC Film

Adhesive: Air-egress, Micro-structured, Repositionable Permanent, Clear Acrylic

Liner: 80# Polycoated, Layflat Liner

Features and Benefits:
- Frosted translucent facestock for etched glass look
- Micro-structured adhesive for dry applications on windows eliminates the messy clean up of wet-application fluids.
- Reverse printable to be read through glass

Typical Uses:
- Window graphics
- Light boxes
- Use MACmark® 700 Series if application is for unprinted décor graphics

B•free®
BUBBLE FREE DIGITAL MEDIA
WINDOW FILMS

Physical Properties	Typical Values
Peel Adhesion, lb./in. 180° on Glass - 24 hours	**3.1-3.7**
Quick Tack on Glass, lb./in2	**4.4-5.6**
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)	**max 0.2**
Temperature Ranges Minimum Application:	**50°F** (+10°C)
End Use:	**-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
JJ5796MBF	54" x 82'	24
JX5796MBF	54" x 164'	47

Durability 5yr

Finish MATTE finish

Adhesive Permanent / air egress

Special Features Flame Class A

windows

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9
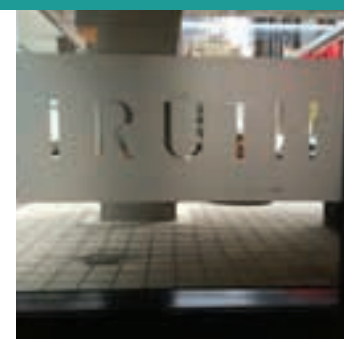
JT5798MBF Dusted

Media: 3.1-mil Translucent, Matte, Dusted Polymeric PVC Film

Adhesive: Air-egress, Micro-structured, Repositionable, Permanent, Clear Acrylic

Liner: 80# Polycoated, Layflat Liner

Features and Benefits:
- Dusted translucent facestock for etched glass look
- Micro-structured adhesive for dry applications on windows eliminates the messy clean up of wet-application fluids
- Reverse printable to be read through glass

Typical Uses:
- Window graphics
- Light boxes
- Use MACmark® 700 Series if application is for unprinted décor graphics

B∘free®
BUBBLE FREE DIGITAL MEDIA
WINDOW FILMS

Durability 5 yr

Finish MATTE finish

Adhesive Permanent air egress

Special Features Flame Class A

Physical Properties	Typical Values
Peel Adhesion, lb./in. 180° on Glass - 24 hr	**3.1-3.7**
Quick Tack on Glass, lb./in2	**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
JJ5798MBF	54" x 82'	24
JX5798MBF	54" x 164'	47

JT5999MBF Clear

Media: 3.1-mil Gloss, Clear Polymeric PVC Film

Adhesive: Air-egress, Micro-structured, Repositionable, Permanent, Clear Acrylic

Liner: 80# Polycoated, Layflat liner

Features and Benefits:
- Gloss clear facestock
- Micro-structured adhesive for dry applications on windows eliminates the messy clean up of wet-application fluids
- 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

B∘free®
BUBBLE FREE DIGITAL MEDIA
WINDOW FILMS

Durability 5 yr

Finish CLEAR GLOSS finish

Adhesive Permanent air egress

Special Features Flame Class A

Physical Properties	Typical Values
Peel Adhesion, lb./in. 180° on Glass - 24 hr	**3.1-3.7**
Quick Tack on Glass, lb./in2	**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
JJ5999MBF	54" x 82'	24
JX5999MBF	54" x 164'	47

JT5829P Gloss White | JT5828P Matte White

Media: 3.7-mil Soft Calendered PVC Films

Adhesive: Permanent, Clear, Acrylic Pressure-sensitive

Liner: 86# Kraft Liner

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 indoor/outdoor advertising & promotions
- Arena graphics & transit applications

Use with:
- PERMACOLOR® Enhancers - pg 33
- ColorGard® LUV Series - pg 34

Physical Properties		JT5828P Typical Values	JT582P 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) (-20° to 70°C)	**-5° to 158°F**
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

Durability
4 yr

Finish
MATTE finish | GLOSS finish

Adhesive
opaque | Permanent

Special Features
Flame Class A | FLAT surface

JT5829R Gloss White | JT5828R Matte White

Media: 3.7-mil Soft Calendered PVC Films

Adhesive: Removable, Clear, Acrylic Pressure-sensitive

Liner: 86# Kraft Liner

Features and Benefits:
- 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 advertising & promotions
- Floor graphics
- Transit graphics

Use with:
- PERMACOLOR Enhancers - pg 33
- ColorGard LUV Series - pg 34
- PermaFlex® IP6200 & PF6300^ - pgs 37-38

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

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

walls | floors | signage

Durability
4 yr

Finish
MATTE finish | GLOSS finish

Adhesive
Removable

Special Features
Flame Class A | FLAT surface

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JT5828HTO Matte White

Media: 3.7-mil Soft Calendered PVC Film

Adhesive: High-tack, Permanent, Opaque, Solvent-based Acrylic Pressure-sensitive

Liner: 86# Kraft Liner

IMAGin by MACtac® JT5828 HTO

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:
- ColorGard® LUV Series - pg 34
- PermaFlex® IP6200 & PF6300^ – pgs 37-38

floors   signage

Durability

4 yr

Finish

MATTE finish

Adhesive

ULTRA Permanent

Special Features

Flame Class A   FLAT surface

Physical Properties		Typical Values
Peel Adhesion, lb./in.		
180° on Glass	- 30 min.	**5.5-7.0**
	- 24 hr	**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:		**50°F** (+10°C)
End Use:		**-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

GV529BFD Gloss White

Media: 3.0-mil Soft calendered PVC film

Adhesive: Air-egress, Quick-building, Permanent, Opaque, Acrylic Pressure-sensitive

Liner: 98# Polycoated liner

B•free® Gruv™

Features and Benefits:
- 3.0-mil gloss white PVC
- Eco-solvent, solvent 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, tradeshows and point-of-purchase.

Use with:
- PERMACOLOR® RAYZor™ - pg 32
- ColorGard LUV Series - pg 34

walls   signage

Durability

5 yr

Finish

GLOSS finish

Adhesive

Permanent   air egress

Special Features

FLAT surface

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:		**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
GV529BFDW54	54" x 150'	40

steadfast paper
888.483.6300
www.steadfastpaper.com
Authorized Distributor

GV429R Gloss White

Media: 3.0-mil Vinyl

Adhesive: Air-egress, Removable Opaque, Pressure-sensitive

Liner: 98# Moisture-stable Polycoated Paper Liner

B•free® Gruv™

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 four year unprinted outdoor life

Typical Uses:
- Wall graphics
- Indoor and outdoor signage
- Displays, tradeshow, point-of-purchase

Use with:
- PERMACOLOR® RAYZor™ - pg 32
- ColorGard® LUV Series - pg 34

Physical Properties		Typical Values
Peel Adhesion, lb./in.		
180° on Glass	- 24 hr	**1.6**
180° on Stainless Steel	- 24 hr	**1.2**
Quick Tack		
on Glass, lb./in2		**1.0**
on Stainless Steel, lb./in2		**0.9**
Dimensional Stability (shrinkage), %		
48 hours @ 158°F (70°C)		**max 0.5**
Temperature Ranges		
Minimum Application:		**50°F** (+10°C)
End Use:		**-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

Durability — 4 yr

Finish — GLOSS finish

Adhesive — Removable opaque air egress

Special Features — FLAT surface

walls | signage

GV429P Gloss White | GV428P Matte White

Media: 3.2-mil Soft Calendered PVC Film

Adhesive: Air-egress, Permanent, Opaque, Acrylic Pressure-sensitive

Liner: 98# Polycoated Liner

B•free® Gruv™

Features and Benefits:
- 4.0-mil gloss white PVC
- B•free® air-egress for easy installation
- Bright white face for excellent color fidelity
- Solvent and UV printable
- Up to one year removability and four year unprinted outdoor life

Typical Uses:
- Wall Graphics
- Indoor and outdoor signage
- Displays, tradeshow, point-of-purchase

Use with:
- PERMACOLOR RAYZor - pg 32
- ColorGard LUV Series - pg 34
- PERMACOLOR PromoGard™ - pgs 35

Physical Properties		Typical Values
Peel Adhesion, lb./in.		
180° on Stainless Steel	- 30 min.	**4.6**
	- 24 hr	**5.0**
Quick Tack		
on Stainless Steel, lb./in2		**3.5**
Dimensional Stability (shrinkage), %		
48 hours @ 158°F (70°C)		**max 1.0**
Temperature Ranges		
Minimum Application:		**50°F** (+10°C)
End Use:		**-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
GV428PW54L150 - matte	54" x 150'	40
GV429PW54L150 - gloss	54" x 150'	40

Durability — 4 yr

Finish — MATTE finish | GLOSS finish

Adhesive — Permanent opaque air egress

Special Features — FLAT surface

walls | signage

PVG828P Matte White
PVG829P Gloss White

IMAGin® by MACtac®
PrintVinyl Gray

Media: 3.9-mil Soft Calendared PVC Film

Adhesive: Gray, Opaque Permanent, Acrylic

Liner: 74# Kraft Liner

Features and Benefits:
- Up to four year outdoor durability with or without laminate
- Solvent, Eco-solvent, Latex and UV printable
- Backed by Mactac's trusted Open Image Warranty™

Typical Uses:
- Promotional signage
- General purpose

Use with:
- PERMACOLOR® PromoGard™ - pg 35

Durability 4 yr

Finish: GLOSS finish MATTE finish

Adhesive: opaque Gray Adhesive Permanent

Special Features: FLAT surface

Physical Properties		Typical Values
Peel Adhesion, lb./in. 180° on Glass	- 24 hr.	**3.0**
Quick Tack on Glass, lb./in2		**2.0**
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. PVG828P	Stock No. PVG829P	Roll Width x Length	Weight: Pounds
PVG828PW54L150	PVG829PW54L150	54" x 150'	43
PVG828PW64L150	PVG829PW64L150	64" x 150'	46

PVG828R Matte White
PVG829R Gloss White

IMAGin® by MACtac®
PrintVinyl Gray

Media: 3.9-mil Soft Calendared PVC Film

Adhesive: Gray, Opaque Removable, Acrylic

Liner: 74# Kraft Liner

Features and Benefits:
- Up to four year outdoor durability with or without laminate
- Solvent, eco-solvent, latex and UV printable
- Backed by Mactac's trusted Open-Image Warranty℠

Typical Uses:
- Promotional signage
- General purpose

Use with:
- PERMACOLOR PromoGard - pg 35

Durability 4 yr

Finish: GLOSS finish MATTE finish

Adhesive: opaque Gray Adhesive Removable

Special Features: FLAT surface

Physical Properties		Typical Values
Peel Adhesion, lb./in. 180° on Glass	- 24 hr	**0.8**
Quick Tack on SS, lb./in2		**0.9**
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. PVG828R	Stock No. PVG829R	Roll Width x Length	Weight: Pounds
PVG828RW54L150	PVG829RW54L150	54" x 150'	43
PVG828RW64L150	PVG829RW64L150	64" x 150'	46

JT828P Matte White
JT829P Gloss White
JT899R Clear

IMAGin®
by MACtac®
PrintVinyl

Media: 3.1-mil Soft Calendered PVC Films

Adhesive: Clear Permanent Acrylic or Clear Removable Acrylic

Liner: 74# Kraft Liner

Features and Benefits:
- Up to four year outdoor durability
- Permanent/Removable, clear, acrylic adhesive

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

Use with:
- ColorGard® LUV Series - pg 34
- PERMACOLOR® PromoGard™ - pg 35

Physical Properties	Typical Values 828P/829P	899R
Peel Adhesion, lb./in. 180° on Glass - 24 hr	**3.4-5.2**	**0.5 – 1.6**
Quick Tack on SS, lb./in2	**2.5-3.9**	**0.7 – 0.8**
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)	**max 1.0**	**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. JT828P - permanent	Stock No. JT829P - permanent	Stock No. JT899R - removable	Roll Width x Length	Weight: Pounds
JT828PW30L150*	JT829PW30L150*	JT899RW30L150*	30" x 150'	26
JT828PW54L150	JT829PW54L150	JT899RW54L150	54" x 150'	43
JT828PW64L150	JT829PW64L150	JT829RW64L150	64" x 150'	46

* 2 Roll Minimum

Durability
4 yr

Finish
GLOSS finish   MATTE finish   CLEAR

Adhesive
CLEAR   Permanent

Special Features
FLAT surface

walls   signage

VM3209R Gloss Clear

IMAGin®
by MACtac®
V·E·R·D·E

Media: 2.0-mil Scratch-Resistant Polyester

Adhesive: Optically Clear Removable

Liner: Glass-smooth Polyester Release Liner

Features and Benefits:
- 100% chlorine, phthalate and vinyl-free
- Topcoated especially for wide-format UV
- **UV Printable only**
- 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
VM3209RW60L164	60" x 164'	52

Durability
2 yr

Finish
GLOSS finish

Adhesive
optically CLEAR   Removable

Special Features
Vinyl Free

windows   signage

STR328 Matte White

StreetRap™
CONCRETE FLOOR GRAPHICS

Media: 3.4-mil Vinyl

Adhesive: Aggressive High-tack

Liner: 90# SuperFlat™ Liner

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:
- PERMACOLOR FloorGRIP™ PF6600 only pg. 38

^ **Meets NFSI/ANSI Standards for slip resistance, recommended for outdoor, dry floors, wet surfaces & handicap accessible routes. See Performance Guides for more information.**

floors | **signage**

Durability — 3 month

Finish — MATTE finish

Adhesive — opaque | Permanent

Special Features — Flame Class A

Physical Properties		Typical Values
Peel Adhesion, lb./in. 180° on Stainless Steel	- 30 min	**7.0**
	- 24 hr	**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:		**50°F** (+10°C)
End Use:		**-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

WN628 Matte White

Now Phthalate Free!

wallNOODLE®
SHORT TERM WALL MEDIA

Media: 6.0-mil Semi-rigid Calendered PVC Film

Adhesive: Ultra Removable and Repositionable, Microsphere Acrylic

Liner: 90# SuperFlat™ Liner

Features and Benefits:
- Easily applied and removed from most interior wall surfaces
- Reusable
- Matte facestock provides superior printability
- Available on 6" cores
- Meets the flame spread and smoke density specifications for ASTM E84, ANSI/NFPA/IFC - Class A

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.

walls | **signage**

Durability — 1 yr

Finish — MATTE finish

Adhesive — Removable

Special Features — Phthalate Free | Flame Class A | FLAT surface

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
WN628W60	60" x 100'	50
Custom Sizes		
WN628W546SL	54" x up to 750'	na
WN62738	27" x 38" Sheets	40

steadfast paper
888.483.6300
www.steadfastpaper.com
Authorized Distributor

PN628 Matte White

Media: 6.0-mil Vinyl

Adhesive: Clear, Permanent Acrylic

Liner: 90# Polycoated

NOW Phthalate Free!

wallNOODLE®
PERMANENT MEDIA

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 ASTM E84, ANSI/NFPA/IFC - Class A

Typical Uses:

- Wall graphics
- Signage
- Decals
- Barrier graphics

Use with:

- ColorGard® LUV Series - pg 34
- 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

walls | signage

Durability 3 yr

Finish MATTE finish

Adhesive Permanent

Special Features Phthalate Free | Flame Class A | FLAT surface

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RO628 Matte White

Media: 6.0-mil Vinyl

Adhesive: Robust, Clear Removable

Liner: 90# SuperFlat™ Polycoated Release Liner

NOW Phthalate Free!

ROODLE™

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
- Solvent, eco-solvent, latex, and UV wide-format, as well as for screen printing

Typical Uses:

- Wall murals
- Decals
- Point-of-purchase displays

Use with:

- PERMACOLOR LUV Series - pg 34
- PERMACOLOR PromoGard PG7000 Series - pg 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'	44
RO628W60L100	60" x 100'	49
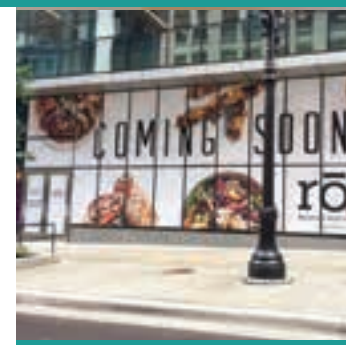
walls | signage | windows

Durability 3 yr

Finish MATTE finish

Adhesive Removable

Special Features Phthalate Free | Flame Class A | FLAT surface

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IMAGin® by MACtac® **deco fresco**™

DF052 Textured White

Media: 8.0-mil Vinyl

Adhesive: Clear, Removable Acrylic

Liner: 90# Polycoated Release Liner

Features and Benefits:
- UV Ink jet, latex and solvent printable
- 2-3 Year indoor durability
- Meets the flame spread and smoke density specifications for ASTM E84, ANSI/NFPA/IFC - Class A

Typical Uses:
- Hospitality décor
- High-end retail
- Home décor
- General uplifting
- Museum exhibits
- Trade shows

NEW!

walls | signage

Durability 3yr

Finish TEXTURED finish

Adhesive Removable

Special Features FLAT surface

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)		**max 0.5**
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
DFO52W54L100	54" x 100'	48

IMAGin® by MACtac® **deco mural**™

DM032 Woven Canvas Textured White

Media: 8.0-mil Woven Textured Vinyl

Adhesive: Clear Removable Acrylic

Liner: 90# Polycoated Release Liner

Features and Benefits:
- UV Ink jet, latex and solvent printable
- 2-3 Year Indoor durability
- Meets the flame spread and smoke density specifications for ASTM E84, ANSI/NFPA/IFC - Class A

Typical Uses:
- Hospitality décor
- High-end retail
- Home décor
- General uplifting
- Museum exhibits
- Trade shows

NEW!

walls | signage

Durability 3yr

Finish TEXTURED finish

Adhesive Removable

Special Features FLAT surface

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)		**max 0.5**
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
DM032W54L100	54" x 100'	48

RR100 White Gloss

Media: 2.0-mil Soft, Highly Conformable Cast PVC Film

Adhesive: High-tack, Permanent, Opaque Acrylic

Liner: 80# Polycoated Liner

Features and Benefits:
- 80# Polycoated liner for excellent printability and layflat
- Superior print quality for vibrant images

Typical Uses:
- Exterior and interior brick and block walls, and rough surfaces

Use with:
- PERMACOLOR® RAYZor™ - pg 32

RoughRAP®
WALL WRAP GRAPHICS

Physical Properties		Typical Values
Peel Adhesion, lb./in. 180° on Stainless Steel	- 24 hr	**3.2-4.2**
Quick Tack on SS, lb./in2		**1.5-2.0**
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)		**max 0.5**
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
RR100W54L75	54” x 75’	24
RR100W54L150	54” x 150’	40

walls · signage

Durability
18 month

Finish
HIGH GLOSS finish

Adhesive
Permanent

Special Features

JDT429 Soft White

Media: 4.0-mil Soft White Gloss, Calendered PVC Film

Adhesive: Semi-permanent, Black Opaque, Acrylic Pressure-sensitive

Liner: 74# Kraft Liner

Features and Benefits:
- Three year durability
- Available on 6” core
- CBS approved

Typical Uses:
- Bus, taxi and subway train applications
- Station domination programs
- Applications needing a true block-out adhesive

Use with:
- ColorGard® LUV Series - pg 34

IMAGin®
by MACtac®
digitrans

Physical Properties		Typical Values
Peel Adhesion, lb./in. 180° on Glass	-24 hr	**0.57**
Quick Tack on SS, lb./in2		**0.68-1.3**
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		

walls · signage

Durability
3 yr

Finish
GLOSS finish

Adhesive
opaque · Semi Permanent

Special Features
FLAT surface

WV159 White Window Perf

Media: 8.0-mil Vinyl with Black Reverse Side and 50% Perforated with 1.5 mm Hole Diameter

Adhesive: Semi-Permanent, Clear Acrylic Pressure-sensitive

Liner: 7.0-mil Film Release Liner

IMAGin® by MACtac®
Wind⊛wVIEW™

Features and Benefits:
- 50/50 hole to printable media ratio
- View graphics from one side and "see-through" from other side
- Solvent and UV printable
- Three year outdoor durability

Typical Uses:
- Transit and vehicle
- Storefront advertising

Use with:
- PERMACOLOR® RAYZor™ Gloss LF3640 - pg 32

vehicles **windows**

Durability

3 yr

Finish

See-Thru **finish**

Adhesive

Semi Permanent

Special Features

FLAT **surface**

Physical Properties		Typical Values
Peel Adhesion, lb./in. 180° on Glass	- 24 hr	**0.23-1.10**
Quick Tack on Glass, lb./in2		**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
WP159W54L100	54" x 100'	47

WV139 White Window Perf

Media: 6.0-mil Vinyl with Black Reverse Side and 70% Print Surface and 30% Open Area

Adhesive: Removable, Clear Acrylic Pressure-sensitive

Liner: 6.0-mil Paper Release Liner

IMAGin® by MACtac®
Wind⊛wVIEW™

Features and Benefits:
- 70/30 hole to printable media ratio
- View graphics from one side and "see-through" from other side
- Solvent and latex printable
- 18 Months outdoor durability
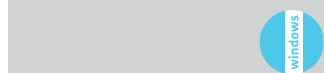
Typical Uses:
- Storefront advertising

Use with:
- PERMACOLOR RAYZor Gloss LF3640 - pg 32

windows

Durability

18 month

Finish

See-Thru **finish**

Adhesive

Removable

Special Features

FLAT **surface**

Physical Properties	Typical Values
Thickness, inches (mm) Film plus adhesive Film, adhesive and liner	**.0065** **.0125**
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)	**fair**
Temperature Ranges Minimum Application: End Use:	**40°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
WV139W54L25	54" x 25'	15
WV139W54L100	54" x 100'	34

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WV129 White Window Perf

Media: 6.0-mil Vinyl , 60/40 Open Perforation with 1.6 mm Hole Diameter and 2.4 mm Between Holes

Adhesive: Semi-Permanent, Black Pressure-sensitive

Liner: 86# White Kraft Liner

IMAGin®
by MACtac®
WindowVIEW™

Features and Benefits:
- 60/40 hole to printable media ratio
- View graphics from one side and "see-through" from other side
- Solvent and eco-solvent printable
- One year outdoor durability

Typical Uses:
- Transit
- Storefront advertising

Use with:
- PERMACOLOR® RAYZor™ - pg 32

Physical Properties		Typical Values
Peel Adhesion, lb./in. 180° on Glass	- 24 hr	**1.0-2.0**
Quick Tack on Glass, lb./in2		**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** (-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
WP129W54L164	54" x 164'	47

vehicles **windows**

Durability
1 yr

Finish
See-Thru finish

Adhesive
Semi Permanent

Special Features
FLAT surface

WVC109 Opaque White | WVC199 Clear

Media: 8.0-mil Vinyl

Adhesive: Static Cling

Liner: 8# White PE Liner

WindowVIEW® CLING

Features and Benefits:
- Clings to glass and smooth stainless steel
- Solvent, latex and UV ink jet printable
- Up to six months outdoors

Typical Uses:
- Short-term promotional applications - signage

Physical Properties		Typical Values
Thickness Film Total Products		**0.008** **0.016**
Tensile Strength, lb.	MD CD	**>18** **>18**
Dimensional Stability (shrinkage), %	MD CD	**≤ 5** **≤ 2**
Temperature Ranges Minimum Application: End Use:		**40°F** (+10°C) **20° to 140°F** (-6° 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
WVC109W54L100	54" x 100'	65
WVC199W54L100	54" x 100'	65

-50% Sales
NEW!

windows **signage**

Durability
6 month

Finish
opaque **CLEAR**

Adhesive

Special Features
FLAT surface

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 2, 4 & 5 years. From signage and vehicle graphics to point-of-purchase, billboards, banners and more, **REBEL** can provide you with cost-effective, long lasting graphics.
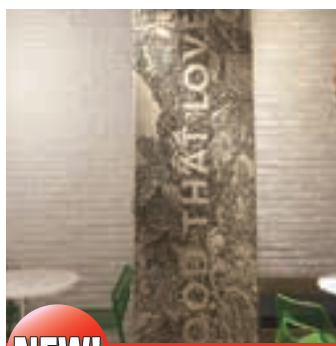
	Product Series	Description	point-of-purchase	Decals	Trade Shows	Windows
High-Performance	RB528X	REBEL® X-TREME 4.0-mil Matte White X-treme	■	■	■	
	RB528H	4.0-mil Matte White High-tack	■	■	■	
	RB528P	4.0-mil Matte White G.P. Permanent	■	■	■	
	RB528R	4.0-mil Matte White Removable	■	■	■	
	RB529P	4.0-mil Gloss White G.P Permanent	■	■	■	
	RB529R	4.0-mil Gloss White Removable	■	■	■	
	RB599H	4.0-mil Clear Gloss High-tack	■	■	■	■
	RB599R	4.0-mil Clear Gloss Removable	■	■	■	■
Intermediate	RB428P	4.0-mil Matte White Permanent	■	■	■	
	RB429P	4.0-mil Gloss White Permanent	■	■	■	
Promotional	RB228P	3.4-mil Matte White Permanent	■	■	■	
	RB228R	3.4-mil Matte White Removable	■	■	■	■

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REBEL®
MULTI-PRINT MEDIA

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 Floors	Billboards	Promotional	Textured Surfaces	Low Energy Surfaces	Durability	Opacity (%)	Adhesive / Liner / Durability	PERMACOLOR® Laminate Recommendation		
								ColorGard® LUV Series	PERMACOLOR PromoGard™ Series	PERMACOLOR PermaFlex™ Thick Laminate, PVC, PP, PC
	■		■		5	99	X-treme High-tack, clear acrylic / 90# Superflat™/ 5 years	■		■
	■			■	5	99	High-tack, clear acrylic / 90# Superflat / 5 years	■		■
					5	99	Permanent, clear acrylic / 90# Superflat / 5 years	■		■
■		■			5	99	Removable, clear acrylic / 90# Superflat / 5 years	■		■
					5	99	Permanent, clear acrylic / 90# Superflat / 5 years	■		■
■		■			5	99	Removable, clear acrylic / 90# Superflat / 5 years	■		■
	■				5	0	High-tack, clear acrylic / 90# Superflat / 5 years	■		■
■		■			5	0	Removable, clear acrylic / 90# Superflat / 5 years	■		■
		■			4	92	Permanent, clear acrylic / 90# Superflat / 4 years	■		■
		■		■	4	92	Permanent, clear acrylic / 90# Superflat / 4 years	■		■
		■			2	80	Permanent, clear acrylic / 90# Coated two sides / 2 years		■	■
■		■			2	80	Removable, clear acrylic / 90# Coated two sides / 2 years		■	■

REBEL MULTI-PRINT MEDIA

REBEL X-TREME

NEW!

RB528X Matte White

Media: 4.0-mil Opaque PVC Film

Adhesive: Extremely Aggressive, Permanent Acrylic Pressure-sensitive

Liner: 90# Polycoated 2-side SuperFlat™ Liner

Features and Benefits:
- REBEL X can be printed on multiply platforms: Screen, latex, UV and solvent ink jet, thermal transfer, UV Flexo and UV offset.
- Five year or better outdoor durability
- Brilliant blue white face offers the best base for great color reproduction, especially with high intensity images!

Typical Uses:
- Any job where your graphic just has to stick and stay stuck!
- Indoor and outdoor concrete surfaces: support pillars and smooth to slightly rough concrete or cinder block walls.
- Tough-to-adhere to applications like trash cans, storage bins, moderately pebbled surfaces

walls | signage

Durability 5 yr

Finish opaque MATTE finish

Adhesive HIGH TACK Permanent

Special Features FLAT surface

Physical Properties		Typical Values
Thickness		**.00**
Peel Adhesion, lb./in. (N/25 mm) Stainless Steel	- 30 min.	**7.0** (30)
	-24 hr	**10.0** (43.5)
Quick Tack on SS, lb./in2 (N/25mm)		**6.5** (33)
Dimensional Stability (shrinkage), % 48 hours @ 158°F (70°C)		**Max 0.05**
Temperature Ranges Application:	**40° to 150°F** (-4°C to 65°C)	
End Use:	**-30° to 225° F** (35° 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	Core	Weight: Pounds
RB528XW54L50	54" x 50'	3"	25
RB528XW54L150	54" x 150'	3"	60

Custom sizes available upon request.

RB528H Matte, Opaque White

Media: 4.0-mil Vinyl

Adhesive: High-tack, Permanent Acrylic Pressure-sensitive

Liner: 90# SuperFlat™ Polycoated Release Liner

Features and Benefits:
- Wide-format and screen printable
- 100% opacity
- 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
- Point-of-purchase displays
- Intermediate outdoor signage
- Long-term indoor signage

floors | windows | walls | signage

Durability 5 yr

Finish opaque MATTE finish

Adhesive HIGH TACK Permanent

Special Features UV | FLAT surface

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"	46
RB528HW60L150	60" x 150'	3"	52
RB528HW60L300	60" x 300'	3"	
RB528HW6*	54" x 300'	6"	92

Custom sizes available upon request.

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REBEL®
MULTI-PRINT MEDIA

RB528P Matte, Opaque White| RB529P High-gloss White

Media: 4.0-mil Vinyl

Adhesive: Permanent Acrylic Pressure-sensitive

Liner: 90# SuperFlat™ Polycoated Release Liner

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
- 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°C 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. Matte	Stock No. High-gloss	Roll Width x Length	Core	Weight: Pounds
RB528PW54L150	RB529PW54L150	54" x 150'	3"	46
RB528PW60L150	RB529PW60L150	60" x 150'	3"	52
RB528PW6*	RB529PW6*	54" x 300'	6"	92

Custom sizes available upon request.

floors **walls** **signage**

Durability
5 yr

Finish
MATTE finish HIGH GLOSS finish opaque

Adhesive
Permanent

Special Features
FLAT surface

RB528R Matte, Opaque White | RB529R High-gloss White

Media: 4.0-mil Vinyl

Adhesive: Removable Acrylic Pressure-sensitive

Liner: 90# SuperFlat™ Polycoated Release Liner

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
- Point-of-purchase displays
- Outdoor signage
- 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°C 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. Matte	Stock No. High-gloss	Roll Width x Length	Core	Weight: Pounds
RB528RW54L150	RB529RW54L150	54" x 150'	3"	46
RB528RW60L150	RB529RW60L150	60" x 150'	3"	52
RB528RW6*	RB529RW6*	54" x 300'	6"	92

Custom sizes available upon request.

* Special roll size for drum-type printers

floors **walls** **signage**

Durability
5 yr

Finish
MATTE finish HIGH GLOSS finish opaque

Adhesive
Permanent

Special Features
FLAT surface

RB599H High-gloss Clear

Media: 4.0-mil Flexible Vinyl

Adhesive: High-tack, Permanent Acrylic Pressure-sensitive

Liner: 90# SuperFlat™ Polycoated Release Liner

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
- point-of-purchase displays
- Medium to long-term outdoor signage

Durability 5 yr

Finish CLEAR / HIGH GLOSS finish

Adhesive HIGH TACK / Permanent

Special Features FLAT surface

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

Custom sizes available upon request.

RB599R High-gloss Clear

Media: 4.0-mil Vinyl

Adhesive: Removable Acrylic Pressure-sensitive

Liner: 90# SuperFlat™ Polycoated Release Liner

Features and Benefits:
- Wide-format and screen printable
- Five year durability
- Two year removability
- High-gloss face
- Lower initial tack
- Stronger removable bond

Typical Uses:
- Screen print labels and decals
- Window graphics
- Point-of-purchase displays
- Intermediate outdoor signage
- Intermediate indoor signage

Durability 5 yr

Finish CLEAR / GLOSS finish

Adhesive Removable

Special Features FLAT surface

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°C 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"	46
RB599RW6*	54" x 300'	6"	92
RB599RW60L150	60" x 150'	3"	52

Custom sizes available upon request.

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REBEL®
MULTI-PRINT MEDIA

RB428P Matte White

Media: 4.0-mil Non-top Coated Vinyl

Adhesive: Permanent Acrylic Pressure-sensitive

Liner: 90# SuperFlat™ C2S Polycoated Release Liner

Features and Benefits:
- Wide-format and screen printable
- Four 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 –	
Face plus adhesive	**.004** (157)
Face, adhesive & liner	**.011** (279)
Peel Adhesion, lb/in. (N/25 mm)	
Stainless Steel - 30 min.	**2.7** (12)
-24 hr	**3.2** (14)
-24 hr heat aged @158°F	**4.0** (18)
Quick Tack on SS, lb./in2 (N/25mm)	**1.5**
Dimensional Stability (shrinkage), %	
48 hours @ 158°F (70°C) MC / CD	**0.1/0.1**
Temperature Ranges	
Application: **50°F min.** (10°C)	
End Use: **–40° to 200° F** (-40° to 93°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. Matte	Roll Width x Length	Core	Weight: Pounds
RB428PW54L150	54" x 150'	3"	46
RB428PW6*	54" x 300'	6"	92
RB428PW60L150	60" x 150'	3"	52
Custom sizes available upon request.			

walls | signage

Durability
4 yr

Finish
opaque | **MATTE** finish

Adhesive
Permanent

Special Features
FLAT surface

RB429P Gloss White

Media: 4.0-mil Non-top Coated Vinyl

Adhesive: Permanent Acrylic Pressure-sensitive

Liner: 90# SuperFlat™ C2S Polycoated Release Liner

Features and Benefits:
- Wide-format and screen printable
- Four 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 –	
Face plus adhesive	**.004** (157)
Face, adhesive & liner	**.011** (279)
Peel Adhesion, lb/in. (N/25 mm)	
Stainless Steel - 30 min.	**2.7** (12)
-24 hr	**3.2** (14)
-24 hr heat aged @158°F	**4.0** (18)
Quick Tack on SS, lb./in2 (N/25mm)	**1.5**
Dimensional Stability (shrinkage), %	
48 hours @ 158°F (70°C) MC / CD	**0.1/0.1**
Temperature Ranges	
Application: **50°F min.** (10°C)	
End Use: **–40° to 200° F** (-40° to 93°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. Gloss	Roll Width x Length	Core	Weight: Pounds
RB429PW54L150	54" x 150'	3"	46
RB429PW6*	54" x 300'	6"	92
RB429PW60L150	60" x 150'	3"	52
Custom sizes available upon request.			

walls | signage

Durability
4 yr

Finish
opaque | **GLOSS** finish

Adhesive
Permanent

Special Features
FLAT surface

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mactac® 27

RB228P Matte White

Media: 3.4-mil Flexible Vinyl

Adhesive: Permanent Acrylic Pressure-sensitive

Liner: 90# SuperFlat™ C2S Polycoated Release Liner

Features and Benefits:
- Wide-format and screen printable
- Two year durability
- Matte face

Typical Uses:
- Screen print labels and decals
- Promotional indoor/outdoor graphics
- Point-of-purchase, display graphics

Durability

2 yr

Finish

MATTE finish

Adhesive

Permanent

Special Features

DIGITAL graphics   FLAT surface

Physical Properties	Typical Values
Thickness	
Face plus adhesive	**.0042** (106)
Face, adhesive & liner	**.0112** (284)
Peel Adhesion, lb/in. (N/25 mm)	
Stainless Steel - 30 min.	**3.0** (13)
-24 hr	**4.5** (20)
Quick Tack on SS, lb./in2 (N/25mm)	**2.0** (8.7)
Dimensional Stability (shrinkage), %	
48 hours @ 158°F (70°C) MC / CD	**.2/.2**
Temperature Ranges	
Application: **50°F** (10°C)	
End Use: **-40° to 180° F** (-5° 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	Core	Weight: Pounds
RB228PW54L150	54" x 150'	3"	45

Custom sizes available upon request.

RB228R Matte White

Media: 3.4-mil Flexible Vinyl

Adhesive: Removable Acrylic Pressure-sensitive

Liner: 90# SuperFlat™ C2S Polycoated Release Liner

Features and Benefits:
- Wide-format and screen printable
- Two year durability
- Six months to one year removability
- Matte face
- Stronger removable bond

Typical Uses:
- Screen print labels and decals
- Promotional indoor/outdoor graphics
- Point-of-purchase, display graphics

Durability

2 yr

Finish

MATTE finish

Adhesive

Removable

Special Features

DIGITAL graphics   FLAT surface

Physical Properties	Typical Values
Thickness	
Face plus adhesive	**.004** (102)
Face, adhesive & liner	**.011** (279)
Peel Adhesion, lb/in. (N/25 mm)	
Stainless Steel - 30 min.	**2.2** (9.6)
-24 hr	**2.8** (12)
Quick Tack on SS, lb./in2 (N/25mm)	**2.0** (8.7)
Dimensional Stability (shrinkage), %	
48 hours @ 158°F (70°C) MC / CD	**.2/.2**
Temperature Ranges	
Application: **50°F** (10°C)	
End Use: **-40° to 180° F** (-5° 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	Core	Weight: Pounds
RB228RW54L150	54" x 150'	3"	45

Custom sizes available upon request.

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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.

Features:

- Wide variety of finishes (high-gloss, gloss, 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
- Anti-graffiti and window protection
- Dry-erase

Benefits:

- Uniform appearance across a broad range of substrates
- Indoor and outdoor versatility
- Superior UV protection for long-lasting prints
- 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
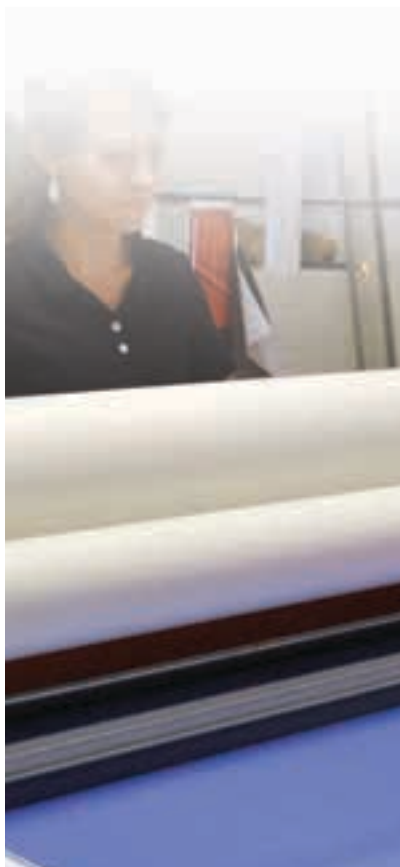
PermaFlex® High-Performance Rigid PS Overlaminates

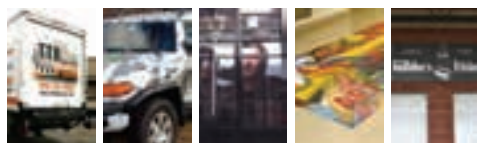**ColorGard®** High-Performance Clear PS Overlaminates

PermaTrans® High-Performance Face Mounting Films

PERMACOLOR PromoGard™ Short-term Digital PS Overlaminates

PERMACOLOR SAG Anti-Graffiti Overlaminates

THERMACOLOR™ Thermal Overlaminates

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mactac®   **29**

PERMACOLOR®

Overlaminating & Mounting Films

	Product	Description	Full & Partial Fleet Wraps	Full & Partial Vehicle Wraps	Windows	Floors	Outdoor Signage	
High-Performance Overlaminates	PERMACOLOR® RAYZor™ – LF3640	1.5-mil Optically clear Gloss, Cast PVC	■	■	■	■	■	
	PERMACOLOR RAYZor – LF3640G	1.5-mil Clear Gloss, Cast PVC	■	■	■	■	■	
	PERMACOLOR RAYZor – LF3630G	1.5-mil Clear Matte, Cast PVC	■	■	■	■		
	Crystal Enhancers	2.5-mil Brilliant Crystal	■	■				
	Crystal Enhancers	3.0-mil Silver Metallic	■	■				
Intermediate Overlaminates	ColorGard® LUV8000	3.0-mil Gloss PVC			■		■	
	ColorGard LUV8300	3.2-mil Lustre PVC			■		■	
	ColorGard LUV8200	3.2-mil Matte PVC			■		■	
Promotional Overlaminates	PERMACOLOR® PromoGard™ PG7000	3.5-mil Gloss PVC					■	
	PERMACOLOR PromoGard PG7300	3.5-mil Lustre PVC					■	
	PERMACOLOR PromoGard PG7200	3.5-mil Matte PVC					■	
	PERMACOLOR LF655079	2.9-mil Matte PVC @ 79" wide					■	
	PERMACOLOR LF656079	2.9-mil Gloss PVC @ 79" wide					■	
Speciality Overlaminates	PermaGard® PDG6054 Dry-Erase	1.0-mil Clear Gloss Hard Coated Polyester			■		■	
	PermaFlex® – IP6000 Lustex® 15	15-mil Clear Textured Polycarbonate Film				■	■	
	PermaFlex – IP6100 Lustex 10	10-mil Clear Textured Polycarbonate Film				■	■	
	PermaFlex – IP6200 Lustex 5	5.0-mil Clear Textured Polycarbonate Film				■	■	
	PermaFlex FloorGrip™– PF6600	6.0-mil Clear Textured PVC Film				■	■	
	PermaFlex – PF6300	5.0-mil Clear Textured PVC Film				■	■	
	PermaFlex – PF6400	3.75-mil Clear Textured Gloss Polyolefin Film				■	■	
Superior Anti-Graffit (SAG) and Window Protection Films	SAG 36	1.4-mil (36 micron) High-gloss PET			■		■	
	SAG 53	2.0-mil (53 micron) High-gloss, Hard Coated PET			■		■	
	SAG 175	6.9-mil (175 micron) High-gloss, Hard Coated PET			■		■	
High-Performance & Intermediate Face (2nd surface) Mounting Films	PermaTrans® – PUV2100	Optically Clear, Permanent/ Permanent			■		■	
	ColorTrans™ – CT2500	Optically Clear, Permanent / Silicone Removable			■			
	ColorTrans – CT2200	Optically Clear, Permanent/Removable			■			
High-Performance, Intermediate & Economy Back Mounting Films	PermaPrint® – IP5000	Opaque, Double-Coated, Permanent/ Permanent					■	
	PermaPrint – PP2011	Clear PET Carrier, Permanent/ Permanent					■	
	PERMACOLOR GEMINI™ XT PP5000	**Back-Mounting Film:** Opaque White Carrier, Permanent/ Permanent					■	
	PERMACOLOR GEMINI XT – PP5600	**Back-Mounting Film:** Clear Carrier, Permanent/ Permanent					■	

Adhesive, Liner & Durability — Recommended Media guide

P.O.P / Indoor	Trade Shows	Boats	Museum	Light BOX	Bus	Walls	Adhesive, Liner & Durability	B-free Gruv GVC929	B-free Gruv 729	IMAGin 5800, Gruv 529	IMAGin PrintVinyl PV 800 & PVC800 Series	REBEL RB500 & RB400 Series	REBEL RB200 Series	IMAGin RoughRAP RR100	IMAGin StreetRap STR328
X	X	X	X	X	X	X	Permanent, Clear Acrylic /1.2-mil PET / 5 Years Outdoor & 8 Years Indoor	X	X	X		X		X	
X	X	X	X	X	X	X	Permanent, Clear Acrylic / 50# Calendered Paper / 5 Years Outdoor & 8 Years Indoor	X	X	X		X		X	
X	X	X	X	X	X	X	Permanent, Clear Acrylic / 50# Calendered Paper / 5 Years Outdoor & 8 Years Indoor	X	X	X		X		X	
X	X	X	X			X	Permanent, Clear Acrylic / 78# White kraft / 5 Yr Outdoor & 8 Years Indoor	X	X	X		X			
X	X	X	X				Permanent, Clear Acrylic / 78# White Kraft / 5 Years Outdoor & 8 Years Indoor	X	X	X		X			
X	X		X	X		X	Permanent, Clear Acrylic / 50# Clay-Coated Kraft / 4 Years			X	X	X			
X	X		X	X		X	Permanent, Clear Acrylic / 50# Clay-Coated Kraft / 4 Years			X	X	X			
X	X		X	X		X	Permanent, Clear Acrylic /50# Clay-Coated Kraft / 4 Years			X	X	X			
X	X		X	X		X	Permanent, Clear Acrylic / 40# Calendered Paper / 2 Years Outdoor					X		X	
X	X		X	X		X	Permanent, Clear Acrylic / 40# Calendered Paper / 2 Years Outdoor					X		X	
X	X		X	X		X	Permanent, Clear Acrylic / 40# Calendered Paper / 2 Years Outdoor					X		X	
X	X		X	X		X	Permanent, Clear Acrylic / 40# Calendered Paper / 2 Years Outdoor					X		X	
X	X		X			X	Permanent, Clear Acrylic / 40# Calendered Paper / 2 Years Outdoor					X		X	
X	X		X			X	Permanent Clear Acrylic / 78# White Kraft / 1 Year Outdoor					X			
X	X		X			X	Permanent Clear Acrylic / 2-mil PET / 3 Years Outdoor & 5 Years Indoor					X			
X	X		X			X	Permanent Clear Acrylic / 1.2-mil PET / 3 Years Outdoor & 5 Years Indoor					X	X		
X	X		X			X	Permanent Clear Acrylic / 1.2-mil PET / 3 Years Outdoor & 5 Years Indoor					X	X		
X	X	X	X				Permanent Clear Acrylic, / 83# Paper / 3 Years Outdoor & 5 Years Indoor, 3 Months on Outdoor Floors					X	X	X	X
X	X		X			X	Permanent Clear Acrylic / 83# Paper / 3 Years Outdoor & 5 Years Indoor, 3 Years on Indoor Floors					X	X	X	
X	X		X			X	Permanent Clear Acrylic / 55# SCK / 1 Yr Outdoor & 3 Years Indoor, 3 Months on Indoor Floors					X	X	X	
X	X		X	X		X	Permanent Optically Clear Acrylic / 1.7-mil PET / 5 Years Outdoors					X	X	X	
X	X		X	X	X	X	Permanent Optically Clear Acrylic / 78# White Kraft / 3 Years Outdoors					X	X	X	
	X		X	X	X	X	Permanent Optically Clear Acrylic / 1.4-mil PET / 2 Years Outdoors & 10 Years Indoor					X	X	X	
X	X		X	X		X	Permanent, Double-Coated Clear Acrylic / 1.5-mil PET / 3 Years Outdoor								
X	X		X	X		X	Permanent Acrylic / Removable Clear Silicone 1.5-mil PET / White OPP/ Up to 6 Month Removability								
X	X			X		X	Permanent acrylic /removable clear acrylic 1.5-mil PET / Up to 6 Month Removability								
X	X		X				Permanent, Opaque Acrylic / 92# PolyCoated / 3-5 Years Indoor								
X	X		X				Permanent, Clear Acrylic / 60# Glassine / 3-5 Years Indoor								
X	X		X				Aggressive Permanent Rubber / Opaque Carrier / Aggressive Rubber								
X	X		X				Aggressive Permanent Rubber / Clear PET Carrier / Aggressive Permanent Rubber								

LF3640 Optically Clear Gloss
LF3640G Gloss

PERMACOLOR® RAYZor™ OVERLAMINATES

Media: 1.5-mil Highly Conformable Cast PVC Film

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 1.2-mil Polyester Liner | 50# Calendered Paper

walls **floors** **signage** **vehicles**

Durability

5 yr

Finish

optically CLEAR | GLOSS finish

Adhesive

Semi Permanent

Special Features

CURVED surface

Features and Benefits:
- Built-in UV protection
- Optically clear gloss and gloss finishes
- Part of the B•free® application warranty
- Five to seven years outdoor durability

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:
- B•free® Gruv™ - pgs 8, 12-13
- WindowVIEW® - pgs 20-21

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
LF3648	54" x 150'	30
LF3642G*	30" x 150'	17
LF3648G	54" x 150'	30
LF3649G	60" x 150'	34
* 2 Roll minimum		

LF3630G Matte

PERMACOLOR® RAYZor™ OVERLAMINATES

Media: 1.5-mil Highly Conformable Cast PVC Film

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 50# Release Liner

walls **signage** **vehicles**

Durability

5 yr

Finish

MATTE finish

Adhesive

Semi Permanent

Special Features

CURVED surface

Features and Benefits:
- Built-in UV protection
- Part of the B•free application warranty

Typical Uses:
- Highly conformable for vehicle graphics, fleet, marine and rough wall graphics
- Flat, curved, corrugated and riveted surfaces

Use with:
- B•free Gruv - pgs 8, 12-13
- RoughRAP® RR100 - pg 19

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

6300 Metallic Enhancers

PERMACOLOR® *Enhancers*

Media: 2.5-mil Brilliant Crystal | 3.0-mil Silver Metallic

Adhesive: High-Performance, Permanent, Clear Solvent Acrylic

Liner: 78# Bleached White Kraft

Features and Benefits:
- Five year outdoor durability
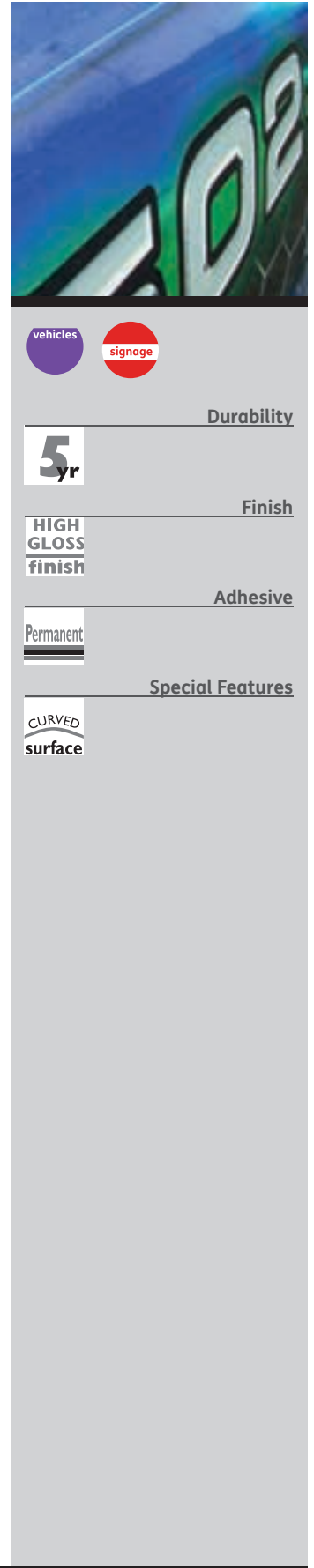- Two enhancers finishes

Typical Uses:
- Overlaminate - flat, slightly curved applications
- Vehicle, fleet and marine graphics
- Colored vinyl enhancement
- General signage

Use with:
- B•free® Gruv™ GVC929 - pg 8
- B•free Gruv GV729 - pg 8
- MACmark 6600 - pg 54-55
- MACmark 9800 - pg 56
- Any graphic print for special effects finish

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)	**>7.5** (13.00)
Elongation %	**>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		
CY63980154	54" x 50'	14
CY639801	60" x 150'	42

vehicles signage

Durability
5 yr

Finish
HIGH GLOSS finish

Adhesive
Permanent

Special Features
CURVED surface

PERMACOLOR®
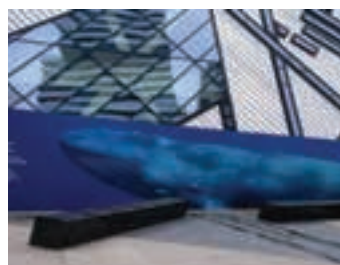
Photo courtesy of IDP

walls signage

Durability

5 yr

Finish

| GLOSS | MATTE | LUSTRE |
| finish | finish | finish |

Adhesive

Permanent

Special Features

UV FLAT surface

ColorGard® LUV
8000 Gloss | 8200 Matte | 8300 Lustre

Media: 3.0-mil Gloss | 3.2-mil Matte | 3.2-mil Lustre,
PVC Overlaminating Films

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 50# Clay-Coated Kraft

ColorGard®
DIGITAL PS OVERLAMINATES

Features and Benefits:
- Five to seven 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:
- Intermediate Media

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
LUV8051W38L150	LUV8251W38L150	LUV8351W38L150	38" x 150'	30
LUV8051W51L150	LUV8251W51L150	LUV8351W51L150	51" x 150'	33
LUV8054W54L150	LUV8254W54L150	LUV8354W54L150	54" x 150'	35
LUV8060W60L150	LUV8260W60L150	LUV8360W60L150	60" x 150'	37

PERMACOLOR®

PG7000 Gloss | PG7200 Matte
PG7300 Lustre

PromoGard™

Media: Promotional Overlaminate Films

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 40# Liner

Features and Benefits:
- Suitable for use over solvent, eco-solvent, UV and latex printed wide-format graphics
- Up to four years 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./in2 (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. PG7000	Stock No. PG7200	Stock No. PG7300	Roll Width x Length	Weight: Pounds
PG7051	PG7251		51" x 150'	45
PG7054	PG7254	PG7354	54" x 150'	48
PG7060	PG7260		60" x 150'	48

walls **signage**

Durability 2yr

Finish GLOSS finish MATTE finish LUSTRE finish

Adhesive Permanent

Special Features FLAT surface

LF655079 Matte | LF656079 Gloss

PromoGard™

Media: 2.5-mil Matte | 2.9-mil High-gloss, PVC

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 40# Calendered Paper

Features and Benefits:
- 79" Roll width
- 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
Peel Adhesion, lb/in. (N/25 mm)		
Stainless Steel	- 30 min.	**2.9** (13)
	- 24 hr	**3.5** (16)
Quick Tack SS , lb./in2 (N/25mm)		**2.3** (10)
Dimensional Stability, (in.)		
48 hours@158°F	MD	**.06**
	CD	**.05**
Temperature Ranges		
Application:	**58° F** (10°C) for best results	
End Use:	**40° to 120° F** (4.5° to 50°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
LF655079 - Matte	79" x 150'	67
LF656079 - Gloss	79" x 150'	67
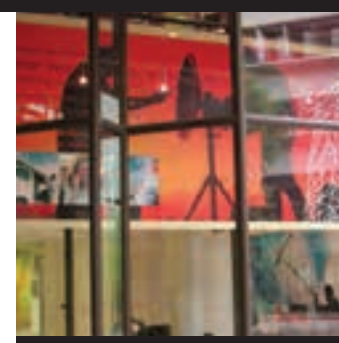
walls **signage**

Durability 2yr

Finish MATTE finish HIGH GLOSS finish

Adhesive Permanent

Special Features UV FLAT surface

PDG6054 Gloss Clear

PermaGard®

Media: 1.0-mil Topcoated Polyester Designed for Dry Erase

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 78# White Kraft

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

walls **signage**

Durability **1 yr**

Finish **GLOSS finish**

Adhesive **Permanent**

Special Features **DRY ERASE** **UV**

Physical Properties	Typical Values
Thickness, inches (µm)	
Film plus adhesive	**0.0020** (51)
Total product	**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
PGD6054L150	54" x 150'	18

IP6000 Lustex® 15

PermaFlex®

Media: 15-mil Polycarbonate Film with Special "Lustex" Finish

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 2.0-mil PET

Features and Benefits:
- Textured lustex finish polycarbonate
- Eliminates glare
- Three year outdoor / Five year indoor durability
- Protects from abrasion and moisture
- Retards color fade caused by UV light

Typical Uses:
- Trade show displays
- Rollable graphics
- Photo graphics
- Counter mats
- Direct food contact

floors **walls** **signage**

Durability **5 yr**

Finish **TEXTURED finish**

Adhesive **CLEAR** **Permanent**

Special Features **UV** **FLAT surface**

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
IP6007W37L150	37" x 150'	69
IP6002W54L150	54" x 150'	93
(wound on 6" I.D. cores with adapters for 3")		

PERMACOLOR®

IP6100 Lustex® 10

PermaFlex®

Media: 10.0-mil Polycarbonate Film with Special "Lustex" Finish

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 1.2-mil PET

Features and Benefits:
- Textured lustex finish polycarbonate
- Eliminates glare
- Three year outdoor / Five year indoor durability
- Protects from abrasion and moisture
- Retards color fade caused by UV light

Typical Uses:
- Trade show displays
- Rollable graphics
- Photo 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
IP6102W51L150	51" x 150'	75
IP6107W37L150	37" x 150'	50

floors walls signage

Durability
5yr

Finish
TEXTURED finish

Adhesive
Permanent

Special Features
UV FLAT surface

IP6200 Lustex 5

PermaFlex®

Media: 5.0-mil Polycarbonate Film with Special "Lustex" Finish

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 1.2-mil PET

Features and Benefits:
- Textured lustex finish polycarbonate
- Eliminates glare
- Three year outdoor / Five year indoor durability
- Protects from abrasion and moisture
- Retards color fade caused by UV light

Typical Uses:
- Floor graphics indoor use only
- Trade show headers
- Mouse pads
- Direct food contact

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
IP6202W37L150	37" x 150'	30
IP6202W51L150	51" x 150'	41

floors walls signage

Durability
5yr

Finish
TEXTURED finish

Adhesive
Permanent

Special Features
UV FLAT surface

---

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mactac 37

PF6600 Clear Textured Matte

PERMACOLOR® FloorGRIP™

Media: 6.0-mil Textured PVC

Adhesive: High-tack Clear, Permanent Acrylic Pressure-sensitive

Liner: 78# White Kraft

Features and Benefits:
- **Meets ANSI/NFSI B101.3 Standard for Slip Resistance**
- Compatible with all digital ink jet and UV inks
- UV inhibitors protect image from color fade
- Protects from abrasion and moisture
- Floors: outdoor durability is three months and indoor is 1 – 3 years depending on traffic
- Short-term applications

Typical Uses:
- Floor graphics

Use with:
- StreetRap™ - pg 16
- REBEL®

NFSI ✓ HIGH-TRACTION

floors

Durability 3 yr

Finish TEXTURED finish

Adhesive Permanent

Special Features UV · FLAT surface

Physical Properties	Typical Values
Thickness, inches (μm) Film plus adhesive	**0.007** (180)
Quick Tack on SS, lb./in2 (N/25mm)	**3.2** (14)
Peel Adhesion, lb/in. (N/25 mm) Stainless Steel — 20 min.	**3.2** (14)
−24 hr	**4.6** (20)
Adhesive PH	**Neutral**
Temperature Ranges Application: **60°F to 90° F** (15°C to 32°C) for best results End Use: **-22° to 160° F** (-30° to 70°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
PF6654W54L82	54" x 82'	30
PF6654W54L150	54" x 150'	48
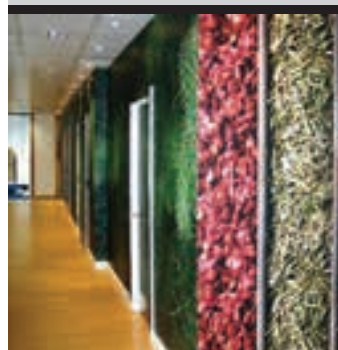
PF6300 Clear Textured Matte

PermaFlex®

Media: 5.0-mil Textured PVC Film

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 83# Paper Liner

Features and Benefits:
- Thin enough for retractable banners yet durable enough for floor graphics
- Outdoor durability is three years in vertical applications and indoor durability is five years
- Floors; use indoor only, durability is 1–3 years depending on traffic.
- Lamination to either one or both sides of photographic prints, transparencies and digital images to impart protection

Typical Uses:
- Floor graphics indoor only
- Trade show displays
- Retractable banners

floors · walls · signage

Durability 3 yr

Finish TEXTURED finish

Adhesive Permanent

Special Features UV · FLAT surface

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
PF6314	40.9" x 164'	35
PF6315	53.9" x 164'	40
PF6354L100	54" x 100'	24

PERMACOLOR®

PF6400 Clear Textured Gloss

PermaFlex®

Media: 3.75-mil Textured Polyolefin Film

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 55# SCK

Features and Benefits:
- Cost effective enough for short-term promotions
- Does not finger print

Typical Uses:
- Floor graphics in door only
- Wall murals
- Point-of-purchase. and trade show displays
- Digital graphics

Use with:
- IMAGin® JT5828R - pg 11
- B•free® Gruv™ GV429R - pg 13
- IMAGin DigiTrans™ - pg 19
- REBEL® RB228R - pg 28

Physical Properties	Typical Values
Thickness, inches (μm) Film plus adhesive	**0.047** (120)
180°Peel Adhesion, lb/in. (N/25 mm) Glass- 20 min.	**1.5** (6.5)
- 24 hr	**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'	35

Durability

5 yr

Finish

TEXTURED finish

Adhesive

Permanent

Special Features

UV | FLAT surface

PF6500 Clear Textured

PermaFlex®

Media: 5.3-mil Textured Vinyl

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 1.2-mil PET Release Liner

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

Typical Uses:
- Floor graphics
- Wall murals
- Point-of-purchase and tradeshow displays

Use with:
- IMAGin JT5828R - pg 11
- B•free Gruv GV429R - pg 13
- IMAGin DigiTrans - pg 19
- REBEL RB228R - pg 28

Physical Properties	Typical Values
Thickness, inches (μm) Film plus adhesive	**0.0053** (135)
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: **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
PF6538	38" x 164'	38
PF6554L150	54" x 150'	47

Durability

Finish

TEXTURED finish

Adhesive

Permanent

Special Features

pH neutral | UV | DIGITAL graphics

---

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39

SAG 36 High-gloss Clear

PermaGard®

Media: 1.4-mil (36 microns) PET

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 1.7-mil PET

NEW!

windows   signage

Durability

5 yr

Finish

HIGH GLOSS finish

Adhesive

Permanent

Special Features

FLAT surface

Features and Benefits:
- Developed to protect graphics from vandalism
- Increase the impact resistance of windows
- UV Protection built in

Typical Uses:
- Private and public transportation vehicles

Use with:
- IMAGin® Series pgs 8-21
- REBEL® Series pgs 24-28
- Direct-to-glass

Physical Properties	Typical Values
Thickness, inches (µm) Film plus adhesive	**0.0023** (60)
Quick Tack on SS, lb./in2 (N/25mm)	**3.2** (14)
Peel Adhesion, lb/in. (N/25 mm) Stainless Steel — 20 min.	**2.5** (11)
-24 hr	**3.2** (14)
Adhesive PH	**Neutral**
Temperature Ranges Application: **50°F to 104° F** (10°C to 40°C) for best results End Use: **-40° to 194° F** (-40° 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
CYSAG36328	60" x 328'	48

SAG 53 High-gloss Clear

PermaGard®

Media: 2.0-mil (53 microns) Hard-Coated PET

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 78# White Kraft

NEW!

vehicles   windows   signage

Durability

3 yr

Finish

HIGH GLOSS finish

Adhesive

Permanent

Special Features

FLAT surface

Features and Benefits:
- Developed to protect graphic images, private or public transport vehicles and areas (trains, subways, tramways, buses) that require a graffiti protection.
- Increase the impact resistance of windows
- Solvent resistant so graffiti can be easily cleaned using most commercially available graffiti cleaners without damaging the graphic.
- Do not directly applied on the vehicles but first laminated to a pressure-sensitive print media.
- Wets out over UV ink jet prints
- UV Protection built in

Typical Uses:
- Private and public transportation vehicles
- Signage

Use with:
- IMAGin Series pgs 8-21
- REBEL Series pgs 24-28

Physical Properties	Typical Values
Thickness, inches (µm) Film plus adhesive	**0.003** (76)
Quick Tack on SS, lb./in2 (N/25mm)	**3.2** (14)
Peel Adhesion, lb/in. (N/25 mm) Stainless Steel — 20 min.	**3.6** (16)
-24 hr	**4.5** (20)
Adhesive PH	**Neutral**
Temperature Ranges Application: **50°F to 104° F** (10°C to 40°C) for best results End Use: **-40° to 194° F** (-40° 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
SAG53W54L150	54" x 150'	36

SAG 175 High-gloss Clear

PermaGard®

Media: 6.9-mil (175 microns) Hard-Coated PET

Adhesive: Clear, Permanent Acrylic Pressure-sensitive

Liner: 1.4-mil PET

Features and Benefits:

- Designed to protect glass on private or public fleets such as trains, subways, trams, buses, etc.
- Protects the glass against scratches made by sharp tools such as ceramics, diamonds, keys, screwdrivers, etc.
- Perfect clarity and vision through glass.
- Increase the impact resistance of windows
- Solvent resistant so graffiti can be easily cleaned using most commercially available graffiti cleaners without damaging the graphic..
- UV Protection built in

Typical Uses:

- Private and public transportation vehicles

Use with:

- IMAGin® Series pgs 8-21
- REBEL® Series pgs 24-28
- Direct-to-glass

Physical Properties	Typical Values
Thickness, inches (µm) Film plus adhesive	**0.0078** (20)
Quick Tack on SS, lb./in2 (N/25mm)	**3.2** (14)
Peel Adhesion, lb/in. (N/25 mm) Stainless Steel - 20 min. -24 hr	**1.8** (8) **2.0** (9)
Adhesive PH	**Neutral**

Temperature Ranges
Application: **50°F to 104° F** (10°C to 40°C) for best results
End Use: **-22° to 160° F** (-30° to 70°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
CVSAG175	48" x 82'	30
CYSAG175	60" x 82'	35

NEW!

vehicles   windows   signage

Durability
10 yr

Finish
HIGH GLOSS finish

Adhesive
Permanent

Special Features
FLAT surface   UV

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41

PUV2100 Optically Clear

Media: Mounting Film

Adhesive: Double-Coated Clear Acrylic

Liner: Two Clear 1.5- mil PET Release Liners

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 graphic images for back-lit or optically clear applications, transparencies and when super smoothness is required

PermaTrans®

walls   *windows*   *signage*

Durability

3 yr

Finish

optically **CLEAR**

Adhesive

Permanent

Special Features

pH neutral   FLAT surface

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
PUV2141W41L150	41" x 150'	39
PUV2151W51L150	51" x 150'	48
PUV2151W51L265	51" x 265'	69
PUV2160W60L150	60" x 150'	58
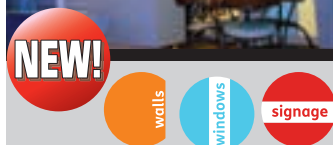
CT2500 Clear

Media: 2.0-mil Polyester Film

Adhesive: Aggressive Permanent Clear Acrylic | Unique Removable Self-Wetting Clear Silicone Pressure-sensitive

Liner: 2.0 -mil Clear PET Liner | Smooth White Film Liner

Features and Benefits:
- Coated two sides, one with aggressive permanent adhesive and other with removable self-wetting silicone adhesive
- Removable side wound out for ease of application
- Indoor and outdoor applications

Typical Uses:
- Face-mounting graphic images to glass windows, Plexiglas® or other transparent substrates

ColorTrans™
TRANSPARENCY MOUNTING FILMS

NEW!

walls   *windows*   *signage*

Durability

3 yr

Finish

optically **CLEAR**

Adhesive

Permanent   **Removable**

Special Features

pH neutral   FLAT surface

Physical Properties	Typical Values
Thickness, inches (µm) Carrier plus adhesive	
Quick Tack , lb./in2 Glass	**Perm / Rem**
Shear, hours to fail - Stainless Steel	
Peel Adhesion, lb/in. Stainless Steel - permanent - removable	
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
CT2554W54L150	54" x 150'	38

CT2200 Optically Clear

Media: Film

Adhesive: One Side Optically Clear Acrylic Permanent | One Side Optically Clear Removable

Liner: Polyester Release Liner | Polyester Release Liner

ColorTrans™
TRANSPARENCY MOUNTING FILMS

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/back-lits
- Face-mounting graphic images
- 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./in2 Glass	**Perm / Rem** **2.8 / 2.5**
Shear, hours to fail - Stainless Steel	
Peel Adhesion, lb/in. Stainless Steel - permanent - removable	**4.0** **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

walls | windows | signage

Durability

2 yr

Finish

optically CLEAR

Adhesive

Permanent | Removable

Special Features

pH neutral | FLAT surface

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mactac® **43**

IP5000 Opaque White

PermaPrint®

Media: Thin Plastic Film

Adhesive: Coated Both Sides with Acrylic Pressure-sensitive

Liner: Single Release Liner

Features and Benefits:
• One paper release liner allows for fast lamination

Typical Uses:
• Mounting of images to black gator, Sintra® and other typical mounting substrates

walls **signage**

Durability

3 yr

Finish

opaque

Adhesive

Permanent

Special Features

PHOTO graphics | pH neutral | FLAT surface

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
IP5015	25" x 150'	15
IP5007	37" x 150'	20
IP5002	51" x 150'	29
IP5008	38" x 150'	21
IP5001	51" x 400'	64
IP5040	60.25" x 150'	33

PP2011 Clear

PermaPrint®

Media: Thin Polyester Film

Adhesive: Coated Both Sides with Acrylic Pressure-sensitive

Liner: White, Moisture-stable, Single Release Liner

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, Cresent® board, Masonite® and Sintra®

walls **signage**

Durability

3 yr

Finish

CLEAR

Adhesive

Permanent

Special Features

PHOTO graphics | pH neutral | FLAT surface

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
PP3316164	60.2" x 164'	30
PP3315164	51.1" x 164'	26
PP3314164	40.9" x 164'	21

PP5000 Opaque White

PERMACOLOR® *GEMINI XT*™

Media: Thin Polypropylene Film

Adhesive: Coated Both Sides Aggressive Rubber-Based Pressure-sensitive

Liner: White, Polycoated Coated Two-Sides, Moisture Stable Paper Liner

Features and Benefits:
- High-tack, high-peel adhesions and high cohesive strength for quick adhesion
- Good for low energy surfaces such as Sintra®, plastic and styrene

Typical Uses:
- General purpose mounting of digital images
- Roll laminators

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	Roll Width x Length	Weight:
PP5051L150	51" x 150'	24
PP5051L400	51" x 400'	65
PP5054L150	54" x 150'	26
PP5054L400	54" x 400'	68
PP5061L400	61" x 150'	

walls | signage

Durability 3 yr

Finish

Adhesive Permanent

Special Features PHOTO graphics | FLAT surface

PP5600 Clear

PERMACOLOR® *GEMINI XT*™

Media: Thin Polyester Film

Adhesive: Coated Both Sides Aggressive Rubber-Based Pressure-sensitive

Liner: White, Polycoated Coated Two-Sides, Moisture Stable Paper Liner

Features and Benefits:
- High-tack, high peel adhesions and high cohesive strength for quick adhesion
- Good for low energy surfaces such as Sintra, plastic and styrene

Typical Uses:
- General purpose mounting of digital images
- Roll laminator

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. PP5600	Roll Width x Length	Weight:
PP5642L150	42" x 150'	20
PP5651L150	51" x 150'	24
PP5651L400	51" x 400'	65
PP5654L150	54" x 150'	26
PP5654L400	54" x 400'	68

walls | signage

Durability 3 yr

Finish CLEAR

Adhesive Permanent

Special Features PHOTO graphics | FLAT surface

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mactac® 45

TL2000 Clear High-gloss

THERMACOLOR™

Media: 3.0-mil | 5.0-mil PET Films

Adhesive: Heat-Activated Polymeric

Features and Benefits:
- Enhances image to provide more vibrant colors
- UV inhibitors protect image from color fade
- Protects from moisture
- Thicker products provide maximum protection

Typical Uses:
- Retail displays
- Point-of-Purchase / Point-of-Sale
- Image protection

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		
TL2037*	33" x 500'	30
TL2035	38" x 500'	32
TL2033*	43" x 500'	35
TL2031	51" x 500'	41
5-mil		
TL2057*	33" x 250'	26
TL2055	38" x 250'	29
TL2053	43" x 250'	34
TL2051	51" x 250'	39

* Special Order sizes 15 day lead time

Durability

walls | signage

Finish

HIGH GLOSS finish

Adhesive

Permanent

Special Features

HEAT activated | UV | DIGITAL graphics

TL2100

THERMACOLOR™

Media: 10.0-mil Clear, Glossy PET Film

Adhesive: Heat-Activated Polymeric

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
- Point-of-Purchase / Point-of-Sale
- Image protection
- Non pressure-sensitive 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	**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
TL2107*	33" x 250'	50
TL2105	38" x 250'	56
TL2103*	43" x 250'	64
TL2101	51" x 250'	75

* Special Order sizes 15 day lead time

Durability

walls | signage

Finish

HIGH GLOSS finish

Adhesive

Permanent

Special Features

HEAT activated | UV | DIGITAL graphics

PERMACOLOR®

TL4000 Clear Satin

THERMACOLOR™

Media: 3.0-mil Polyester Film

Adhesive: Heat-Activated Polymeric

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
- Image protection

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
TL4037*	33" x 500'	29
TL4035	38" x 500'	31
TL4033*	43" x 500'	34
TL4031	51" x 500'	40

* Special Order sizes 15 day lead time

walls | signage

Durability

Finish
SATIN finish

Adhesive
Permanent

Special Features
HEAT activated | UV | DIGITAL graphics

TL5600 Matte Non-Glare

THERMACOLOR™

Media: 3.0-mil Polyester Film

Adhesive: Heat-Activated Polymeric

Features and Benefits:
- Non-glare matte finish
- Protects image from contaminates 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
TL5637*	33" x 500'	29
TL5635	38" x 500'	31
TL5633*	43" x 500'	34
TL5631	51" x 500'	40

* Special Order sizes 15 day lead time

walls | signage

Durability

Finish
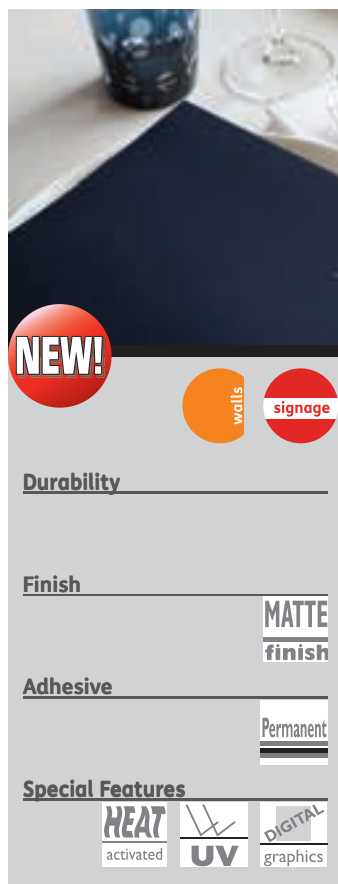MATTE finish

Adhesive
Permanent

Special Features
HEAT activated | UV | DIGITAL graphics

TL7030 Matte

Media: 3.0-mil EasyTouch™ Matte PET

Adhesive: Heat-Activated Polymeric

EasyTouch™ matte

Features and Benefits:
- Hard-coated for graphic protection
- UV Light protection built-in
- Haze-free matte finish
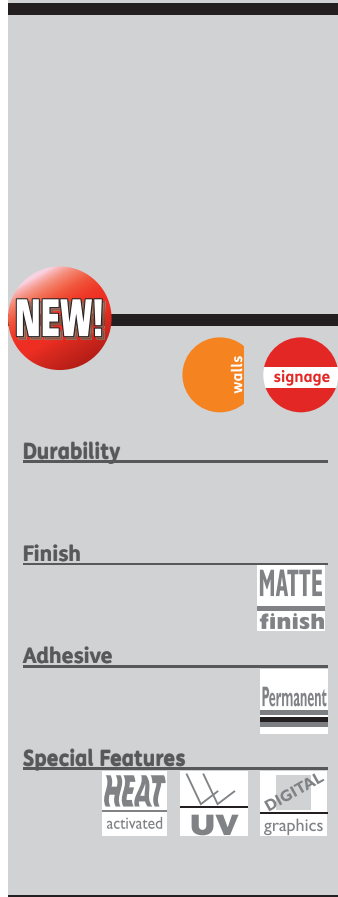- Stampable
- Foldable
- Glueable
- Printable

Typical Uses:
- Graphic image overlamination
- Tradeshows
- Point-of-Purchase / Point-of-Sale Displays
- Nameplates
- Book covers
- Menu finishing
- Packaging

NEW!

walls signage

Durability

Finish

MATTE finish

Adhesive

Permanent

Special Features

HEAT activated   UV   DIGITAL graphics

Physical Properties	Typical Values
Thickness	**3-mil** (1/2)
Gloss	**1.9**
Adhesive PH	**neutral**
Core Size	**3" I.D.**
Heat Seal Initiation Temperature	**185°-200°F** (85°-94°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.

TL5000 Stock No.	Roll Width x Length	Weight: Pounds
TL7031	51" x 500'	41
TL7035	38" x 250'	16

TL7050 Matte

Media: 5.0-mil EasyTouch Matte PET

Adhesive: Heat-Activated Polymeric

EasyTouch™ matte

Features and Benefits:
- Hard-coated for graphic protection
- UV Light protection built-in
- Haze-free matte finish
- Stampable
- Foldable
- Glueable
- Printable

Typical Uses:
- Graphic image overlamination
- Tradeshows
- Point-of-Purchase / Point-of-Sale Displays
- Nameplates
- Book covers
- Menu finishing
- Packaging

NEW!

walls signage

Durability

Finish

MATTE finish

Adhesive

Permanent

Special Features

HEAT activated   UV   DIGITAL graphics

Physical Properties	Typical Values
Thickness	**5-mil** (2/3)
Gloss	**1.9**
Adhesive PH	**neutral**
Core Size	**3" I.D.**
Heat Seal Initiation Temperature	**185°-200°F** (85°-94°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.

TL5000 Stock No.	Roll Width x Length	Weight: Pounds
TL7051	51" x 500'	39
TL7055	38" x 250'	29

PERMACOLOR®

TL7100 Matte

Media: 10.0-mil EasyTouch™ Matte PET

Adhesive: Heat-Activated Polymeric

EasyTouch™ matte

Features and Benefits:

- Hard-coated for graphic protection
- UV Light protection built-in
- Haze-free matte finish
- Stampable
- Foldable
- Glueable
- Printable

Typical Uses:

- Graphic image overlamination
- Tradeshows
- Point-of-Purchase / Point-of-Sale Displays
- Nameplates
- Book covers
- Menu finishing
- Packaging

Physical Properties	Typical Values
Thickness	**10-mil** (2/8)
Gloss	**1.9**
Adhesive PH	**neutral**
Core Size	**3" I.D.**
Heat Seal Initiation Temperature	**185°-200°F** (85°-94°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.

TL5000 Stock No.	Roll Width x Length	Weight: Pounds
TL7101	51" x 500'	75
TL7105	38" x 250'	56

NEW!

walls signage

Durability

Finish

MATTE finish

Adhesive

Permanent

Special Features

HEAT activated   UV   DIGITAL graphics

* Special Order sizes 15 day lead time

Technical Guides	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.
TA2010 Cutting PermaFlex®	Trimming PermaFlex® laminated images.
TA2017 Material Safety Data Sheets	MSDS Sheets for Mactac Products.
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.
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.
TA2037 Rolling and Shipping Graphics	Mactac studies and field surveys with numerous customers using PERMACOLOR laminates in rollable graphic applications, leads Mactac to make recommendations for rolling and shipping laminated images.
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.
TA2041 Archivability	Archival or permanent pressure-sensitive paper products
TA2044 Lamination Procedures	PERMACOLOR provides fast, efficient processing through cold roll lamination techniques without the need for heat, drying or messy liquid coating operations.
TA2063 Cleaning PERMACOLOR® Laminated Images	Mactac product recommendations for CBS Outdoors.
TA2076 Outgassing Prevention	Plastic sheet pre-treatment for the reduction or elimination of out-gassing.
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.
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 Deco Application Guide	Step by step directions for installing IMAGin Deco pressure-sensitive top-coated fabric for all mural 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.
TA2501 B•free Application Guide	Our micro-structured air-egress technology provides the best opportunity for a successful application!

Guide #	Description	Guide #	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	**MAC2890**	Decorative Graphic Solutions & Applications Guide

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MACmark®

MACmark® changes 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.


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
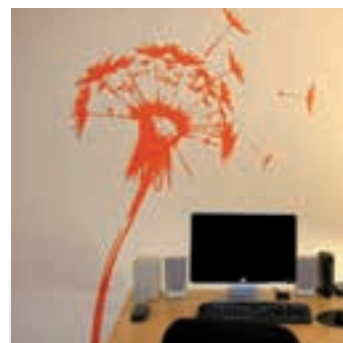
MACmark TuningFilms - Photo courtesy of Focal Photo

MACmark®

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

Product	Outdoor Durability	Thickness	Characteristics	Long-term Outdoor Advertising	Fleet Marking / Vehicle Markings / Decals & Striping	Full Vehicle Wraps	Marine Markings
High-Performance Marking Films							
6600	Up to 8years	2.0-mil	• Polymeric cast opaque vinyl • Permanent clear solvent acrylic adhesive • 78# bleached white Kraft liner: stability and layflat	■	■	■	■
9800PRO	Up to 7-8 years	2.6-mil	• Polymeric calendared vinyl alternative to cast • Permanent solvent acrylic adhesive • 8n# bleached white Kraft liner: stability and layflat	■	■		■
9700PRO	Up to 5-7 years	3.0-mil	• 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	5.1-mil	• Trendy carbon fiber texture • B•free® air-egress permanent acrylic adhesive • 80# polycoated layflat liner: stability and layflat	■	■		■
TuningFilms Iridescent	Up to n-5 years	3.9-mil	• 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	• 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	• Embossed polymeric vinyl looks like metal • Permanent acrylic adhesive • 90# polycoated layflat liner		■		■
TuningFilms Sublime BF	Up to 7-8 years	3.4-mil	• 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	• 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	• 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	• Highest gloss in the industry • Permanent solvent acrylic adhesive • 83# bleached white Kraft liner for stability and layflat		■		
700 Décor	Up to 5 years	3.0-mil	• 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	3.0-mil	• 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	• Reflective polymeric film with excellent night and day visibility • White high strength permanent acrylic adhesive • 92# White polycoated lay flat liner	■	■		■
6700	5 Years	3.0-mil	• Polymeric sparkle metallic cast vinyl • Ultra conformability on complex curves • Permanent solvent acrylic adhesive	■	■		■
6800	Up to 6 months	2.0-mil	• Eye catching color polymeric cast vinyl • Permanent solvent acrylic adhesive • 78# Bleached white Kraft liner: stability and layflat				
Mactac wallCHALKER™	Up to 4 Years	4.7-mil	• 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,
MACtransfer 220 with high-tack adhesive for small letter and fine lines and
MACtransfer 230 clear with medium-tack adhesive for medium to large decals.

Interior Glass Partitions & Windows	Exterior Windows	Wall Design	Wall Words	Logo & Signs	Back-lit Signs	Awnings	point-of-purchase 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	■		

* For correct ASTM C-1028 Laminate see MAC2705 PERMACOLOR® Floor Guide

6600 Cast Vinyl

Media: 2.0-mil Cast Vinyl

Adhesive: Clear, High-Performance Solvent Acrylic

Liner: 78# Bleached Kraft Layflat Liner

Features and Benefits:

• Excellent conformability to corrugated and riveted surfaces
• Up to eight years outdoor durability, five years for metallic colors
• Superior cutting and weeding

Typical Uses:

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

Durability

8 yr

Finish

GLOSS finish

Adhesive

Permanent

Special Features

rivets   CURVED surface

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: **40° to 104°F** (5° 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
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**
Gloss White **6629-00**	Smoke Metallic **6669-01**	> Imitation Gold **6609-20**	Tomato Red **6659-04**
Gloss Black **6689-00**	Charcoal Metallic **6669-02**	> Oyster **6629-03**	Burgundy **6659-14**
Powder Blue Metallic **6639-02**	> Dark Charcoal Metallic **6669-04**	Intense Blue **6639-04**	> Regal Red **6659-16**
> Demin Blue Metallic **6639-08**	Gold Metallic **6679-00**	Peacock Blue **6639-07**	Brown **6683-03**
> Ice Blue Metallic **6639-18**	> Bright Gold Metallic **6679-01**	Olympic Blue **6639-10**	Light Gray **6689-03**
> Sapphire Blue Metallic **6639-20**	Light Gold Metallic **6679-03**	Vivid Blue **6639-11**	Pewter **6689-04**
> Pine Green Metallic **6649-10**	Gingersnap Metallic **6683-05**	> Violet **6639-13**	Traffic Gray **6689-05**
> Medium Green Metallic **6649-14**	Bronze Metallic **6683-06**	Light Navy **6639-23**	Gray **6689-02**
> Celery Green Metallic **6649-18**	> Taupe Metallic **6683-11**	> Sapphire Blue **6639-25**	Palm Oyster **6689-07**
> Dark Teal Metallic **6649-26**	> Black Metallic **6689-01**	> Dark Green **6649-00**	
> Fire Red Metallic **6659-18**	Clear **6699-00**	> Deep Green **6649-02**	**>SPECIAL ORDER COLOR**
> Shocking Pink Metallic **6659-21**	Bright Orange **6601-05**	Bright Green **6649-08**	

6600 Custom Color Match Program

How to request a custom color match:

- Ask your Mactac® sales rep for a Color Match form.
- Complete and 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[SM]
- 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 eight years outdoor durability, five years - metallics
- Top quality adhesive performance
- Less shrinkage than industry standard

Orange **6601-04**	Plum **6639-16**	> Real Teal **6649-15**	Orchid **6659-08**	Gloss White **6629-00**
> Tangerine **6601-06**	Dark Blue **6639-19**	Seafoam Green **6649-16**	Blossom **6659-09**	Gloss Black **6689-00**
> Yellow **6609-00**	Scandinavian Blue **6639-21**	Teal **6649-17**	Warm Red **6659-10**	
Butter **6609-05**	> Dark Navy Blue **6639-28**	> Spectra Everglade **6649-19**	Vivid Red **6659-11**	
Almond **6629-04**	Polo Green **6649-01**	Medieval Wine **6659-02**	Spectra Red **6659-12**	
Nautical Blue **6639-00**	Shamrock Green **6649-05**	> New Tomato Red **6659-03**	Cocoa **6683-04**	
> Spring Blue **6639-05**	> Lime Green **6649-07**	Burgundy Maroon **6659-05**	> Buckskin **6683-09**	
Lavender > **6639-14**	Kelly Green **6649-09**	Fire Red **6659-06**		
Shadow Blue **6639-15**	Apple Green **6649-12**	Raspberry **6659-07**	>SPECIAL ORDER COLOR	

Note: Colors shown may vary due the printing process. **Call for a 6600 Series Color Card (MAC2758) for actual colors.**

9800PRO High-gloss | 9800PRO-SL Luminous

Media: 2.6-mil Cadmium-Free Calendered Vinyl
Adhesive: Clear, High-Performance Solvent Acrylic
Liner: 83# Bleached White Kraft Liner

windows   walls   signage

Durability

8 yr

Finish

HIGH GLOSS finish

Adhesive

Permanent

Special Features

rivets   CURVED surface

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

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	**0.0037** (85) **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. - 1 week	**4.0** (16) **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
CV	48" x 164'	42
CY	60" x 164'	53

Gloss White 9829-00P	Beige 9829-01P	Medium Blue 9839-24P	Medium Red 9859-00P	Silver 9869-00P	**9800PRO-SL** **Luminous**
					Luminous Yellow 9807-00P
Gloss Black 9889-00P	Ivory 9829-05P	Reflex Blue 9839-26P	Tomato Red 9859-46P	Gold 9879-00P	Luminous Orange 9807-07P
Matte White 9828-00P	Light Blue 9839-07P	Turquoise Green 9849-15P	Burgundy 9859-05P	Dark Brown 9883-04P	Luminous Cyan 9837-00P
Matte Black 9888-00P	Sky Blue 9839-10P	Petrol 9849-17P	Panther Rose 9859-08P	Fawn Brown 9883-06P	Luminous Blue 9837-01P
Clear 9899-00P	Vivid Blue 9839-11P	Dark Green 9849-51P	Cyclamen 9859-09P	Charcoal 9889-01P	Luminous Green 9847-00P
Orange 9801-40P	Ultramarine Blue 9839-12P	Medium Green 9849-10P	Poppy Red 9859-10P	Dark Gray 9889-02P	Luminous Red 9857-00P
Dark Yellow 9809-45P	Violet 9839-13P	Light Green 9849-52P	Dark Red 9859-12P	Light Gray 9889-03P	
Lemon Yellow 9809-06P	Dark Blue 9839-19P	Apple Green 9849-13P	Wine Red 9859-41P	Pearl Gray 9889-04P	
Banana Yellow 9809-46P	Pastel Blue 9839-20P	Grass Green 9849-55P	Regal Red 9859-42P	Traffic Gray 9889-05P	
Orange Yellow 9809-47P	Sea Blue 9839-22P	Bottle Green 9849-21P	Vivid Red 9859-47P		
Saffron 9809-11P	Scandinavian Blue 9839-23P				

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

9700PRO Matte Translucent

Media: 3.0-mil Cadmium-Free Vinyl

Adhesive: Permanent

Liner: 83# Bleached White Kraft Liner

Features and Benefits:
- Ultimate color consistency and uniformity
- Bright, vibrant colors
- Used in creating thermal formed signs
- 5-7 Years outdoor and indoor durability
- Durable permanent adhesive with excellent wet-out for superior clarity

Typical Uses:
- Back-lit signs
- Awnings
- Windows
- Thermoform signs

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: **50° to 104°F** (10° 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.	Roll Width x Length	Weight: Pounds
CV	48" x 164'	42

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

Durability 7yr

Finish MATTE finish

Adhesive Permanent

Special Features CURVED surface

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

Light Diffusers and Light Stop

Media: Translucent

Adhesive: Permanent

Liner: 83# Bleached White Kraft Liner
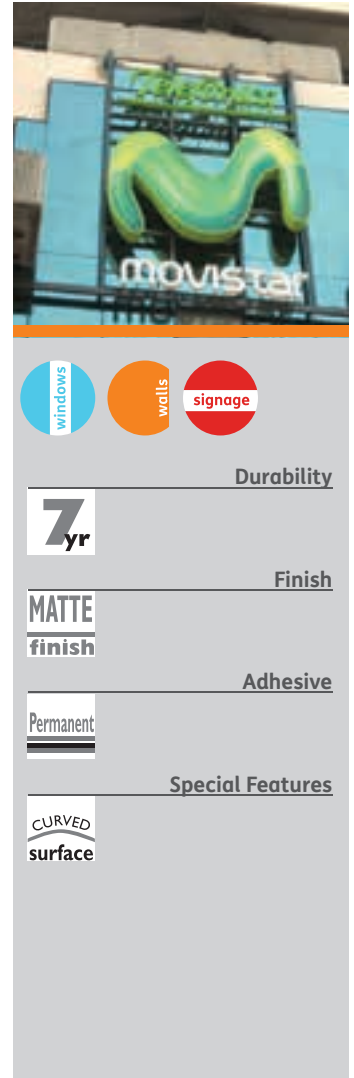
Features and Benefits:
- 30% Diffuser 70% opacity
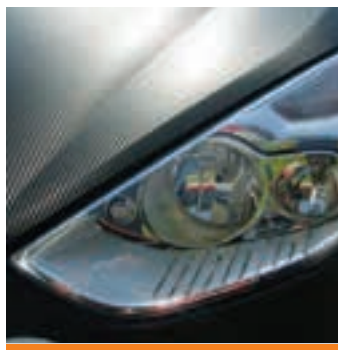- 60% Diffuser 40% opacity
- Light Stop 100% opacity

Typical Uses:
- Homogenous light diffusion from light boxes
- Create different sades of color for nighttime illumination
- Special day/night effects with Light Stop

Physical Properties	Typical Values Light Diffusers	Typical Values Pro Light Stop
Opacity, % TAPPI-425	**9798-30PRO** 30% **9798-60PRO** 60%	**9722-00PRO** 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: **50° to 104°F** (10° 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.	Roll Width x Length	Weight: Pounds
CV	48" x 164'	42

Carbon Fiber BF

Media: 5.1-mil Textured, Cadmium-Free Polymeric Vinyl

Adhesive: Air-egress, Micro-structured, Permanent Acrylic

Liner: 80# Polycoated Layflat Liner

Tuningfilm

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
- B•free® air-egress adhesive for quick and quick bubble-free installation

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

White **TFL1028BF**

Black **TFL1088BF**

Graphite **TFL8801BF**

Silver **TFL1068BF**

Note: **Call for a TuningFilms Color Card (MAC2866) for actual colors.**

vehicles | **walls**

Durability 5 yr

Finish TEXTURED finish

Adhesive air egress / Permanent

Special Features CURVED surface

Physical Properties	Typical Values
Thickness, inches (µm) Film plus adhesive	**0.0061** (130)
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. - 24 hr - 1 wk	**2.8** (13) **3.4** (15) **3.7** (16)
Face Material Data,68°F (20°C) Tensile strength lb/in. (N/15 mm) Elongation %	**>12** (40) **>150%**
Temperature Ranges Application: **50° to 104°F** (10° 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
TF1088BF	Black	60" x 82'	35
TF1028BF	White	60" x 82'	35
TF1068BF	Silver	60" x 82'	35
TTF8801BF	Graphite	60" x 82'	35

Iridescent - Color Changing

Media: 3.9-mil Pearl, Blue-Green & Fushia-Green, Soft Cast Vinyl

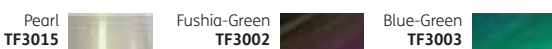**Adhesive:** Air-egress, Micro-structured Permanent Acrylic

Liner: 80# Polycoated Layflat Liner

Tuningfilm

Features and Benefits:
- Conformable cast vinyl with unique finishes
- Applies over corrugated and curved surfaces
- Up to four years outdoor durability
- Repositionable, user-friendly adhesive

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

Pearl **TF3015**

Fushia-Green **TF3002**

Blue-Green **TF3003**

vehicles | **walls**

Durability 4 yr

Finish TEXTURED finish

Adhesive air egress / Permanent

Special Features rivets / CURVED surface

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. - 24 hr - 1 wk	(16) (20) (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: **59° 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
TF3002	Fushsia-Green	60" x 82'	26
TF3003	Blue-Green	60" x 82'	26
TF3015	Pearl	60" x 82'	26

MACmark®

Textured

Media: 8.7-mil Soft Cast Vinyl

Adhesive: Repositionable Transparent Acrylic

Liner: 80# Polycoated Layflat Liner

Features and Benefits:
- Black Leather for real leather appearance
- Applies over corrugated and slightly curved surfaces
- Up to five years outdoor durability

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

Black Leather
TF3102

Tuningfilm

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: **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
TF3102	Black Leather	60" x 82'	29

vehicles | **walls**

Durability
5 yr

Finish
TEXTURED finish

Adhesive
air egress | Removable

Special Features
CURVED surface

Brushed Metals

Media: 5.5-mil Cadmium-Free Polymeric Vinyl

Adhesive: B•free® Air-egress

Liner: 90# Polycoated Layflat Liner

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)

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

Brushed Aluminum
TF16800BF

Brushed Steel
TF16802BF

Brushed Black
TF1800BF

Brushed Graphite
TF16803BF

Brushed Titanium
TF16801BF

Tuningfilm

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 %	**≥** (40) **≥ 150%**
Temperature Ranges Application: **50° to 104°F** (10° 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
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

vehicles | **walls**

Durability
5 yr

Finish
TEXTURED finish

Adhesive
air egress | Removable

Special Features
CURVED surface

700BF Sublime

Media: 3.4-mil Cadmium-Free, Polymeric Vinyl

Adhesive: Air-egress, Micro-structured, Permanent Acrylic

Liner: 83# Bleached White Kraft Liner

Tuningfilm

Durability
8 yr

Finish
HIGH GLOSS finish | MATTE finish

Adhesive
air egress | Permanent

Special Features
CURVED surface

vehicles | walls

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

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

White Gloss **TF72900BF**	Medium Red Matte **TF75800BF**	Banana Yellow Matte **TF70846BF**	Vivid Blue Gloss **TF73911BF**
Banana Yellow Gloss **TF70946BF**	Spicy Red Matte **TF75843BF**	Scandinavian Blue Matte **TF73823BF**	Ultramarine Blue Gloss **TF73912BF**
Medium Red Gloss **TF75900BF**	Cyclamen Matte **TF75809BF**	Aubergine Matte **TF73838BF**	Aubergine Gloss **TF73938BF**
Scandinavian Blue Gloss **TF73923BF**	Vivid Blue Matte **TF73811BF**	Green Yellow Matte **TF74854BF**	Green Yellow Gloss **TF74954BF**
Silver Gloss **TF76900BF**	Ultramarine Blue Matte **TF73812BF**	Silver Matte **TF76800BF**	Apple Green Gloss **TF74913BF**
Black Gloss **TF78900BF**	Apple Green Matte **TF74813BF**	Flash Orange Gloss **TF70935BF**	Charcoal Gloss **TF78901BF**
White Matte **TF72800BF**	Charcoal Matte **TF78801BF**	Spicy Red Gloss **TF75943BF**	
Flash Orange Matte **TF70948BF**	Black Matte **TF78800BF**	Cyclamen Gloss **TF75909BF**	

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MACmark®

Stellar 800 BF

Media: 4.7-mi Double Layer Cast Vinyl

Adhesive: Micro-structured Permanent Bubble-free

Liner: 90# Polycoated Release Liner

Features and Benefits:
- B•free® air-egress adhesive for quick and quick bubble-free installation

Typical Uses:
- Designed for vehicle and boat hull (above the water line) wraps
- Furniture surfaces
- Interior decorations

Physical Properties	Typical Values
Thickness, inches (µm) Film plus adhesive	**0.0059** (0.150)
Dimensional Stability (shrinkage),% 48 hours @ 158°F (70°C) bonded aluminum	**<0.15**
Peel Adhesion, lb/in. (N/25 mm) 180°F Stainless Steel - 20 min. - 24 hr - 1 week	**3.9** (17) **4.3** (19) **4.8** (21)
Face Material Data,68°F (20°C) Tensile strength lb/in. (Nk/m) Elongation %	**≥ 11** (35) **≥ 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

Durability 8 yr
Finish HIGH GLOSS finish
Adhesive air egress / Permanent
Special Features CURVED surface / rivets

| Sea Blue **TF83922BF** | Black **TF88900BF** | Light Orange **TF80941BF** | Fushia **TF85915BF** |
| Red **TF??** | Apple Green **TF84913BF** | Violet **TF83965BF** | White **TF82900BF** |

Intermediate Marking Films

8900PRO Matte & Gloss

Media: 2.8-mil Cadmium-Free, Calendered Vinyl

Adhesive: Air-egress, Micro-structured Removable Acrylic

**Liner:** 83# Bleached White Kraft Liner

Durability

4 yr

Finish GLOSS finish MATTE finish

Adhesive air egress Removable

Special Features FLAT surface

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
- Removable adhesive cleanly removes after two years from most surfaces

Typical Uses:

- Home décor and interior design
- Wall words
- Way finding
- Signs
- Window graphics
- * Floor graphics
- Point-of-purchase
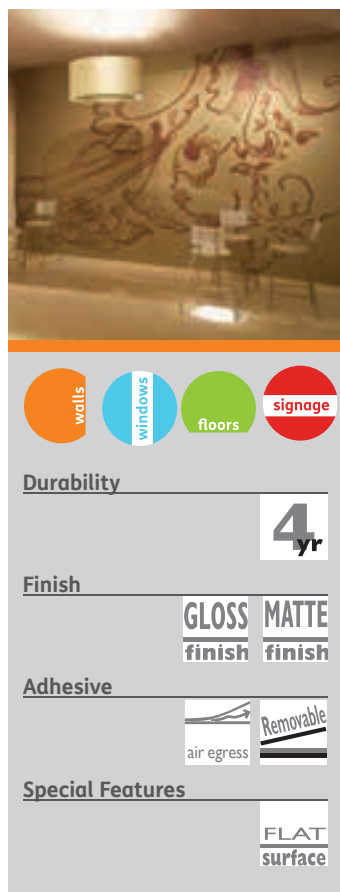
Physical Properties		Typical Values
Thickness, inches (µm) Film plus adhesive		**0.035** (89)
Dimensional Stability (shrinkage),% 48 hours @ 158°F (70°C) bonded aluminum		**<0.10**
Peel Adhesion, lb/in. (N/25 mm) Stainless Steel	- 30 min.	**0.9** (4.0)
	- 1 week	**1.7** (7.5)
Face Material Data,68°F (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.		

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

Gloss Colors
White	**8929-00**
Black	**8989-00**
Medium Yellow	**8905-24**
Medium Blue	**8939-00**
Sky Blue	**8939-04**
Turquoise Blue	**8939-07**
Royal Blue	**8939-13**
Bottle Green	**8949-05**
Dark Green	**8949-30**
Spring Green	**8949-31**

Gloss Colors
Cyclamen	**8959-04**
Flame Red	**8959-35**
Medium Red	**8959-36**
Silver	**8969-00**
Mouse Gray	**8989-04**

Matte Colors
White	**8928-00**
Black	**8988-00**
Lemon Yellow	**8908-12**
Light Yellow	**8908-25**
Yellow	**8908-27**
Buttercup	**8908-26**
Sunflower Yellow	**8904-23**
Light Orange	**8908-28**
Orange	**8902-22**
Dark Orange	**8908-29**

Matte Colors
Red	**8958-37**
Blood Red	**8958-34**
Medium Red	**8958-33**
Camine Red	**8958-38**
Burgundy	**8958-12**
Cyclamen	**8958-04**
Green-Yellow	**8948-09**
Lime	**8948-10**
Spring Green	**8948-31**
Kiwi	**8948-11**

Matte Colors
Matte Green	**8948-29**
Leaf Green	**8948-08**
Medium Green	**8948-28**
Spinach Green	**8948-33**
Dark Green	**8948-30**
Bahamas Blue	**8938-15**
Turquoise Blue	**8938-07**
Turquoise Green	**8948-13**
Mint	**8948-14**
Light Blue	**8938-16**

Matte Colors
Sky Blue	**8938-04**
Medium Blue	**8938-00**
Cosmic Blue	**8938-18**
Electric Blue	**8938-14**
Violet	**8938-19**
Royal Blue	**8938-13**
Methylene Blue	**8938-20**
Highway Blue	**8938-02**
Cobalt Blue	**8938-17**
Graphite	**8988-16**

Matte Colors
Medium Gray	**8988-15**
Concrete Gray	**8988-11**
Pearl Gray	**8988-17**
Ivory	**8928-18**
Beige	**8928-17**
Nut Brown	**8982-12**
Chocolate Brown	**8982-11**
Gold	**8978-00**
Silver	**8968-00**

8900 Designer Series - Matte Colors
Lagoon Blue 8938-39	Water Lily 8948-22	Oasis 8948-26	Dahila Pink 8958-19	Antique Violet 8958-23	Sepia Brown 8982-10	Mustard 8908-20
Pastel Turoquoise 8938-60	Pesto 8948-25	Baby Doll 8958-00	Magnolia 8958-21	Mocha 8982-09	Silk Grey 8988-00	Antique White 8928-16
Blue Grey 8938-61						

Note: Colors shown may vary due the printing process. **Call for a 8900PRO Series Color Card (MAC2846) for actual colors.**

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MACmark®

8300PRO Gloss

Media: 2.8-mil Cadmium-Free, Calendered Vinyl

Adhesive: Permanent Acrylic

Liner: 83# Bleached White Kraft Liner

Features and Benefits:

- Highest gloss intermediate color vinyl
- Up to five years outdoors for black and white; four years colors
- Superior cutting and weeding

Typical Uses:
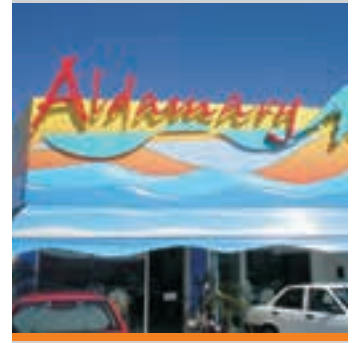
- Promotional signage (flat surfaces)
- Window graphics

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. - 1 week	**3.2** (14) **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: **50° to 104°F** (10° to 40°C) End Use: **-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.	

Stock No.	Roll Width x Length	Weight: Pounds
CF	30" x 164'	28
CV	48" x 164'	42
CY	60" x 164'	53

walls   windows   signage

Durability

5 yr

Finish

GLOSS finish   MATTE finish

Adhesive

Permanent

Special Features

FLAT surface

Gloss White 8329-00P	Sandstone 8329-13P	Purple Blue 8339-30P	Bottle Green 8349-05P	Chocolate Brown 8383-13P
Gloss Black 8389-00P	Light Beige 8329-14P	Lavender 8339-31P	Spring Green 8349-31P	Imitation Gold 8383-14P
Matte White 8328-00P	Almond 8329-15P	Copenhagen Blue 8339-32P	Polo Green 8349-16P	Mouse Gray 8389-04P
Matte Black 8388-00P	Medium Blue 8339-00P	Navy 8339-33P	Burgundy 8359-12P	Dark Gray 8389-18P
Silver 8369-00P	Highway Blue 8339-02P	Butterfly Blue 8339-34P	Raspberry 8359-15P	Slate Gray 8389-19P
Gold 8379-00P	Sky Blue 8339-04P	Powder Blue 8339-35P	Flame Red 8359-35P	Frosty Gray 8389-20P
Orange 8301-22P	Ocean Blue 8339-06P	Nautical Blue 8339-36P	Medium Red 8359-36P	Clear 8399-00P
Sunflower Yellow 8303-23P	Turquoise 8339-07P	Vibrant Green 8349-17P	Blood Red 8359-39P	
Medium Yellow 8305-24P	Royal Blue 8339-13P	Medium Green 8349-34P	Cyclamen 8359-04P	
Light Yellow 8309-30P	Electric Blue 8339-14P	Apple Green 8349-35P	Dark Red 8359-33P	
Apricot 8309-31P	Seafoam Green 8349-15P	Dark Green 8349-30P	Passion Red 8359-40P	

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

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Durability

5 yr

Finish

MATTE finish

Adhesive

Permanent

Special Features

CURVED surface | FLAT surface

Glass Décor 700 - Frosted, Dusted & Matte

Media: 3.0-mil Cadmium-Free, Translucent Vinyl

Adhesive: Transparent, Clear Permanent

Liner: 83# Bleached White Kraft Liner

Features and Benefits:
- Significant cost savings over etching or sandblasting
- Up to five years indoor/outdoor durability
- Excellent layflat characteristics on plotter
- Durable transparent clear permanent adhesive with excellent wet-out
- Line has squared red backprinting for positioning

Typical Uses:
- Glass partition in restaurants
- Shopping malls, 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. — 24 hr — 1 week	**3.2** (14) **3.9** (17) **4.3** (19)
Face Material Data,68°F (20°C) Tensile strength lb/in. (N/15 mm) Elongation %	**>28** **>180%**
Temperature Ranges Application: **50° to 104°F** (10° 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.	

Frosted **9798-01**

Dusted **9798-02**

Romantic Rose **75800**

Luxurious Gold **77800**

Offshore Blue **73800**

Refreshing Mint **74800**

Sparkling Yellow **70800**

Stock No.	Roll Width x Length	Weight: Pounds
CV	48" x 164'	42
CY*	60" x 164'	53

* Dusted & Frosted Only

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

MACmark®

MACcrystal® 8400 Gloss Transparent

**Media:** 3.0-mil Vinyl

Adhesive: Clear Permanent

Liner: 83# Bleached White Kraft Liner

Features and Benefits:
- Glossy transparent vinyl
- Color uniformity day or night
- Up to three years outdoors

Typical Uses:
- Windows and glass
- Translucent illuminated signs
- Environmental graphics

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

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.
      - 24 hr
      - 1 week
	3.2 (14)
	 4.1 (18)
	 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: **50° to 104°F** (10° 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.	Roll Width x Length	Weight: Pounds
CV	48" x 82'	43

windows

Durability

3 yr

Finish

GLOSS finish

Adhesive

Permanent

Special Features

FLAT surface

5700 Reflective

Media: 6.0-mil Flexible, Reflective Polymeric Film

Adhesive: Permanent Acrylic

Liner: 92# White, Polycoated LayFlat™ Liner

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

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. - 1 week	**4.6** (20) **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: **50° to 104°F** (10° to 40°C) End Use: **-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.	

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

White **5729-00**	Yellow **5709-00**	Red **5759-00**	Dark Blue **5739-01**
Black **5789-00**	Orange **5701-00**	Light Blue **5739-00**	Green **5749-00**

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

Durability

7 yr

Finish

GLOSS finish

Adhesive

Permanent

Special Features

rivets | CURVED surface | FLAT surface

vehicles | signage

MACmark®

6700 Sparkle Metallic

Media: 3.0-mil High-gloss Cadmium-Free Cast Vinyl

Adhesive: Permanent Solvent Acrylic

Liner: 78# Bleached White Kraft

Features and Benefits:
• Five year outdoor durability
• 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)	**>7.5** (1300)
Elongation %	**>80%**
Temperature Ranges Application: **40° to 104°F** (5° to 40°C) End Use: **-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

	Stock No.		Stock No.		Stock No.		Stock No.		Stock No.
Sparkle	6729-00	Topaz	6779-00	Sapphire Blue	6739-25	>Cinnabar	6759-00	Amethyst	6739-1
Light Onyx	6769-00	Colbalt Blue	6739-00	>Emerald Green	6749-00	Fire Opal	6759-06	Dk Amethyst	6759-16
Smoky Quartz	6789-00	Azurite	6739-15	Beryl	6749-15	Rose Quartz	6759-09	Aventura	6783-05

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

>SPECIAL ORDER COLOR

vehicles **signage**

Durability
5yr

Finish
HIGH GLOSS finish

Adhesive
Permanent

Special Features
CURVED surface   FLAT surface

6800 Fluorescents

Media: 2.0-mil Short-term Cast Vinyl

Adhesive: Permanent Solvent Acrylic

Liner: 78# Bleached White Kraft

vehicles · **walls** · **signage**

Durability
6 month

Finish
HIGH GLOSS finish

Adhesive
Permanent

Special Features
CURVED surface · FLAT surface · rivets

Features and Benefits:
- Six month outdoor durability
- Semi-gloss finish
- Flat, curved or corrugated surface installation

Typical Uses:
- Short-term indoor or outdoor applications
- Point-of-purchase.
- 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) **>80%**
Temperature Ranges Application: **40° to 104°F** (5° to 40°C) End Use: **-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

Fluorescent Orange **6802-00**

Fluorescent Yellow **6804-00**

Fluorescent Blue **6834-00**

Fluorescent Green **6844-00**

Fluorescent Red **6854-00**

Fluorescent Pink **6856-00**

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

MACmark®

Mactac® wallCHALKER™

Media: 4.7-mil Cadmium-Free, Semi-Rigid Vinyl

Adhesive: Aggressive Removable Acrylic

Liner: 83# Bleached White Kraft

Features and Benefits:

- Cut to unique shapes
- Easy to clean
- Aggressive removable adhesive, strong enough to support large size applications
- Cleanly removable

Typical Uses:

- Walls
- Kitchen Sign Boards
- Meeting Rooms
- Novelty Decals
- Playrooms/Children's Bedrooms
- Menu Boards
- Tables
- Point-of-Purchase

Physical Properties	Typical Values
Thickness, inches (μm) Film plus adhesive	**0.0055** (140)
Dimensional Stability (shrinkage),% 48 hours @ 158°F (70°C) bonded aluminum	**<0.10**
Peel Adhesion, lb/in. (N/25 mm) Stainless Steel - 30 min. - 24 hr Glass - 30 min. - 24 hr	**0.91** (4.0) **1.16** (5.1) **0.91** (4.0) **1.23** (5.4)
Temperature Ranges Application: **32° to 104°F** (0° to 40°C) End Use: **-40° to 158° F** (-40° to 70°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
CB1088R24	24" x 164'	23
CB1088R48	48" x 164'	46

walls
signage

Durability

4 yr

Finish

TEXTURED finish

Adhesive

Removable

Special Features

FLAT surface

MACtransfer® 210

Face: 4.3-mil Translucent Saturated Paper

Adhesive: Medium-tack

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.	**12-14** (3.3-3.4)
Tensile, oz./in.	**11.5**
Elongation, %	**2.5**
Tear, grams	**50**
Thickness, mils (um)	**4.3** (16)
Shelf Life: One year 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

MACtransfer® 220

Face: 4.3-mil Translucent Saturated Paper

Adhesive: High-tack

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.	**16-18** (4.4-4.8)
Tensile, oz./in.	**14.6**
Elongation, %	**2.2**
Tear, grams	**50**
Thickness, mils (um)	**4.0-4.5** (115)
Shelf Life: One year 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
ST2024	24" x 300'	2 Roll	24

MACtransfer® 230

Face: 4.5-mil Transparent Polyethylene Film

Adhesive: Medium/High-tack

Features and Benefits:
- Clear film
- Non-static
- Slightly textured
- Medium/High-tack adhesive to aid in the transfer of medium to large decals

Typical Uses:
- Transfer of diecut letters and decals to final substrate
- Keeps perfect registration
- Protection of polished surfaces

Physical Properties	Typical Values
Peel Adhesion, lb/in. (N/25 mm) Stainless Steel - 20 min.	**4** (1.2)
Tensile, lbs/in^2	**4000**
Elongation, %	**650**
Tear, grams	**NA**
Thickness, mils (um)	**4.5** (115)
Shelf Life: One year when stored between 60-80°F (15-25°C) and 50% RH or less.	

Stock No.	Roll Width x Length	#/Ctn	Weight: Pounds
ST3048	48" x 300'	1 Roll	25

NEW!

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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.	**0.60** (2.5)
	- 1 week	**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

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		

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mactac®   **71**

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