Bᵒfree®
Bubble Free Digital Media

Product Guide
Bubble-free Digital Media

Easy-to-print, easy-to-install bubble-free digital media solutions for any application.

walls · **windows** · **vehicles** · **signage**

mactac®
A LINTEC COMPANY

Innovative Product Portfolio.

Mactac® takes a distinctively different, specialized approach to its product solutions development. It's an approach with roots in quality, consistency and innovation. Our ingenuity in product development is the driving force behind the success of IMAGin® B•free®, a product line unlike any other in the industry.

IMAGin® B•free Digital Media

Category	Product	Product Code	Face	Finish	Color	Adhesive	Adhesive Air-Egress Pattern	Liner
High Performance Air-Egress Media	B•free Gruv	GVC929BFDv2	2.0 mil Cast PVC	Gloss	Bright White	Grey Opaque Permanent	Random Polygon Air-Egress	98# Polycoated Kraft
		GV729BFDv2	2.1 mi Vinyl	Gloss	Bright White	Grey Opaque Permanent	Random Polygon Air-Egress	98# Polycoated Kraft
		GV529BFD	3.0 mil Vinyl	Gloss	Bright White	Grey Opaque Permanent	Random Polygon Air-Egress	98# Polycoated Kraft
Promotional Air-Egress Media	B•free Gruv	GV428P	3.2 mil Vinyl	Matte	White	Grey Opaque Permanent	B•free Air-Egress	98# Polycoated Kraft
		GV429P	3.2 mil Vinyl	Matte	Gloss White	Grey Opaque Permanent	Random Polygon Air-Egress	98# Polycoated Kraft
Window Air-Egress Media	IMAGin	JT5796v2MBF	3.1 mil Vinyl	Frosted Matte	Translucent	Glass Clear Permanent	Invisible B•free Air-Egress	80# Polycoated Kraft
		JT5798v2MBF	3.1 mil Vinyl	Dusted Matte	Translucent	Glass Clear Permanent	Invisible B•free Air-Egress	80# Polycoated Kraft
		JT5999v2MBF	3.1 mil Vinyl	High Gloss	Clear	Glass Clear Permanent	Invisible B•free Air-Egress	80# Polycoated Kraft

PERMACOLOR® Overlaminates

Category	Product	Product Code	Face	Adhesive	Liner	Width	Indoor Durability* Outdoor Durability
Promotional	PERMACOLOR PromoGard	PG7000 Series	3.0 mil Gloss, Matte & Lustre Clear Vinyl	Clear Acrylic Permanent	40# Silicone	51", 54", 60"	5+ years / 5 years
Intermediate	ColorGard LUV	LUV 8000 Series	3.0 mil Gloss, Matte, & Lustre Clear Vinyl	Clear Acrylic Permanent	58# White Kraft	38", 51", 54", 60"	5+ years / 5 years
Premium	PERMACOLOR RAYZor	LF3640	1.5 mil Optically Clear Gloss	Optically Clear Acrylic Permanent	1.2 mil Polyester	54"	5+ years / 5 years
		LF3640G	1.5 mil Clear Gloss	Clear Acrylic Permanent	50# Calendered Paper	30", 54", 60"	5+ years / 5 years
		LF3630G	1.5 mil Clear Matte	Clear Acrylic Permanent	50# Release Liner	54", 60"	5+ years / 5 years
	PERMACOLOR Silver Metallic Enhancer	CY639800	3.0 mil Clear Sparkle Cast Vinyl	Clear Acrylic Permanent	78# White Kraft	54"	5+ years / 5 years
	PERMACOLOR Brilliant Crystal Enhancers	CY639801	2.5 mil Clear Sparkle Cast Vinyl	Clear Acrylic Permanent	78# White Kraft	54", 60"	5+ years / 5 years

Indoor Durability* / Outdoor Durability	Minimum Application Temp	Service Temperature Range	Width	Ink Compatibility	Walls	Windows	Signage	Vehicles	PERMACOLOR PromoGard	PERMACOLOR RAYzor	ColorGard LUV	Enhancers
9 years / 9 years	+55°F	-50°F to +225°F	54"	Solvent, Eco-solvent, UV, Latex Ink Jet			Long-term Indoor & Outdoor Signs	Full & Partial Wraps		■		■
7 years / 7 years	+50°F	-4°F to +180°F	54"	Solvent, Eco-solvent, UV, Latex Ink Jet			Long-term Indoor & Outdoor Signs	Partial Wraps		■		■
5 years / 5 years	+50°F	-40°F to +180°F	54"	Solvent, Eco-solvent, UV Ink Jet			Long-term Indoor & Outdoor Signs		■	■	■	■
4 years / 4 years	+50°F	-50°F to +158°F	54"	Solvent, Eco-solvent, UV Ink Jet	Graphics		Long-term Indoor & Outdoor Signs, Displays, Tradeshows, POP		■		■	
4 years / 4 years	+50°F	-50°F to +150°F	54"	Solvent, Eco-solvent, UV Ink Jet	Graphics		Long-term Indoor & Outdoor Signs, Displays, Tradeshows, POP		■		■	
5 years / 5 years	+50°F	-40°F to +194°F	54"	Solvent, Eco-solvent, UV Ink Jet								
5 years / 5 years	+50°F	-40°F to +194°F	54"	Solvent, Eco-solvent, UV, Latex Ink Jet		Window Graphics, Light Boxes						
5 years / 5 years	+50°F	-40°F to +194°F	54"	Solvent, Eco-solvent, UV, Latex Ink Jet								

Surface Burning Characteristics	Minimum Application Temperature	Usage Temperature Range	Walls	Windows	Signage	Vehicles	GVC929v2BFD	GV729v2BFD	B•free Media	GV529BFD	GV428P	MACmark 6600	MACmark 9800
NA	+45°F (+7°C)	-20°F to 150°F (-28°C to 66°C)	Signage, POP										
UL E-84 Flame Spread 20; UL Smoke Developed, 35; ANSI Class A; NFPA Class A; IFC Class A	+45°F (+7°C)	-40°F to 150°F (-40°C to 66°C)	Photographic Prints, and Transparencies, Instant wet-out on UV inks		Indoor and Outdoor Signage, POP,					■	■		
UL E-84 Flame Spread 0; UL Smoke Developed, 30; ANSI Class A; NFPA Class A; IFC Class A	40°F (+5°C)	-50°F to 225°F (-45°C to 107°C)	Graphics and Murals for Long-Term or Textured Applications	Perforated Window Film	Image Enhancement	Highly-conformable Vehicle, Fleet & Marine	■	■					
UL E-84 Flame Spread 0; UL Smoke Developed, 30; ANSI Class A; NFPA Class A; IFC Class A	40°F (+5°C)	-50°F to 225°F (-45°C to 107°C)			Image Enhancement	Highly-conformable Vehicle, Fleet & Marine	■	■	■	■			
UL E-84 Flame Spread 0; UL Smoke Developed, 30; ANSI Class A; NFPA Class A; IFC Class A	58°F (+14°C)	-50°F to 225°F (-45°C to 107°C)	Curved, Flat & Corrugated Surfaces			Highly-conformable Vehicle, Fleet & Marine	■						
NA	40°F (+5°C)	-50°F to 225°F (-45°C to 107°C)	Graphics and Murals for Long-term Applications		General Signage	Flat Surfaces - Partial Vehicle Wraps	■	■		■	■	■	■
NA	40°F (+5°C)	-50°F to 225°F (-45°C to 107°C)	Graphics and Murals for Long-term Application		General Signage	Flat Surfaces - Vehicle Wraps	■	■		■	■	■	■

IMAGin® B•free® is:

B•free Gruv™ Cast — Your premium solution for full or partial vehicle, fleet or marine wraps (**GVC929BFDv2**)

⭐ *Improved! Now Slide-able*

- Repositionable permanent opaque acrylic adhesive that ultimately builds to a strong bond, yet remains removable
- Proprietary omni-directional air-egress invisible adhesive pattern
- Excellent color reproduction with a high gloss, ultra white facestock
- Superior printability with an 98# polycoated layflat liner
- Outdoor durability of nine years

B•free Gruv — Your high-performance cost-effective solutions for partial vehicle wraps, indoor and outdoor P.O.P. and signage displays – IMAGin B•free Gruv (**GV729BFDv2**, **GV529BFD**, **GV429P** and **GV428P**).

- A wide variety of B•free products for a wide variety of applications including: indoor and outdoor signage, exhibits, point-of-purchase (P.O.P.) and retail displays, and moderately curved or riveted surfaces found in partial vehicle wraps
- Added imagery dimension with a bright, white facestock
- True color representation – no matter the color of the application surface – with an opaque adhesive
- Easy bubble-free installation with random polygon air-egress adhesive technology

B•free Window Films — Your indoor and outdoor solution for frosted, dusted and clear translucent window film applications.

⭐ *Improved!*

Three different finishing options – *frosted, dusted and clear* – IMAGin B•free Window Films (**JT5796v2MBF**, **JT5798v2MBF**, **JT5999v2MBF**).

- Reverse printable, allows graphics to be applied indoors, but viewed outdoors, where outdoor signs are regulated or vandalism is a possibility
- Proprietary omni-directional air-egress adhesive system, for fast installation
- Eliminates messy wet application fluids
- Designed for window graphics, internally illuminated signs and light boxes

PERMACOLOR® revolutionizes your digital, photographic and lithographic images. With high-performance overlaminates, specialty overlaminates providing unique features and intermediate overlaminates designed for all your laminating needs .

Create an impact with your images using:

ColorGard® LUV – provides superior protection and color enhancement with fast, efficient results, quick wet-out and non-silvering properties. Available in gloss, matte and lustre.

PERMACOLOR Enhancers – add a sparkling finish to high-profile, wide-format and screen print graphic applications.

PERMACOLOR RAYZor™ – for applications requiring extreme conformability and clarity – including brick and textured walls, windows and floors for curved surfaces, signage and vehicle wraps.

PERMACOLOR PromoGard™ – for protection and light control for POP, POS and general signage applications.

Open-Image Warranty℠ for Mactac® Media and Laminates:
You make the choice of printer and ink that are best for your business and Mactac will be the partner that stands behind you. Simply provide us with your system and if we have not already tested the combination, we'll run a comprehensive series of tests to insure the system works and then warrant your application. If we find the components are not compatible we'll let you know that, too, and make alternative recommendations. It's that simple!

We stand behind you. And, we work with the most popular printer and ink suppliers to ensure product compatibility and durability.

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