



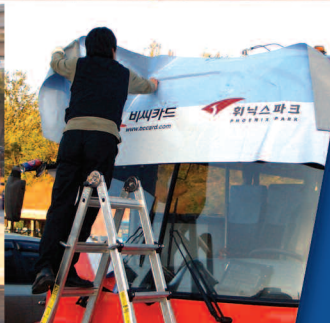
B-free™
by MACtac®

Bubble Free Digital

MACtac®'s research and development team has made a revolutionary discovery-- a line of pressure sensitive films which are easier to apply and reposition than traditional films. These innovative films will help applicators save on application time and increase profitability. Air bubbles and wrinkles are easily pushed out thanks to the micro-structure of the adhesive.

Save time in the application process by eliminating the need to reposition for bubble removal and the risk of damage caused by using blades.

- Highly conformable PVC films
- Solvent-based and UV ink jet printing
- 80# Polycoated Liner for layflat
- Micro-structured permanent acrylic adhesive eliminates air bubbles during application
- Better printability, no adhesive pattern show-through
- Less adhesive residue after removal: 20% versus 30% industry standard
- Warranted with all OEM ink sets
- Long-term seven to ten years durability with lamination or without
- Available in 54" width, 164' or 328' lengths



PERFORMANCE GRAPHICS
IMAGin® • MACmark® • PERMACOLOR® • MACscreen®



A Bemis Company

Technical Specifications

JT5529BFD B•free™ Digital Media	A 2.1-mil soft white gloss, highly conformable, polymeric PVC film designed for solvent-based ink jet printing. The product is coated on one side with a permanent, opaque, acrylic pressure sensitive B•free™ adhesive with air egress technology and supplied with an 80# polycoated release liner. JT5529BFD is designed for long-term outdoor, vehicle markings on flat, curved, complex and riveted surfaces.	
	Physical Properties	Typical Values
	Peel Adhesion, PPIW (N/25mm) 180° on Glass 24 hr:	3.2 (13.5)
	Quick Tack on Glass, lb./in² (N/25 mm)	4.3 (19)
	Dimensional Stability, (%) 48 hours @ 158°F	max. 0.5
	Temperature Ranges, Minimum Application: End Use:	50°F (+10°C) -4° to 160°F (-20° to 70°C)
	Printing Conditions	72°F (23°C) and 50% Relative Humidity
	Shelf Life	2 Years from D.O.M. when stored at 60/70°F (15/25°C) and 50% RH
Lamination Ensure print is perfectly dry. Material should have 24 hr. drying time prior to lamination or transportation. Permacolor® LF3640 for complex curved and riveted applications and LF3680 and LF3650 for flat applications, are recommended overlaminates to prevent scratching. Note: Adding an overlaminate will significantly reduce conformability to complex curved surfaces.		

JT5929BFD B•free Digital Media	A 2.7-Mil gloss white, polymeric stabilized PVC film designed for solvent/UV ink jet printing. The product is coated on one side with a permanent, opaque, acrylic pressure sensitive B•free adhesive with air egress technology and supplied with a 80# polycoated liner. JT5929BFD is designed for long-term outdoor advertising and promotion applications on flat or moderately curved surfaces.	
	Physical Properties	Typical Values
	Peel Adhesion, PPIW (N/25mm) 180° on Glass 24 hr:	3.2-4.6 (14-20)
	Quick Tack on Glass, lb./in² (N/25 mm)	3.4-4.8 (15-21)
	Dimensional Stability, (%) 48 hours @ 158°F	max. 0.5
	Temperature Ranges, Minimum Application: End Use:	50°F (+10°C) -40° to 194°F (-40° to 90°C)
	Printing Conditions	72°F (23°C) and 50% Relative Humidity
	Shelf Life	2 Years from D.O.M. when stored at 60/70°F (15/25°C) and 50% RH
Lamination Ensure print is perfectly dry. Material should have 24 hr. drying time prior to lamination or transportation. Permacolor® LF3640 for complex curved and riveted applications and LF3680 and LF3650 for flat applications, are recommended overlaminates to prevent scratching. Note: Adding an overlaminate will significantly reduce conformability to complex curved surfaces.		

Recommendations are believed to be accurate but do not constitute a warranty written or implied. Refer to MACTac Product Performance Guides and Technical Assistance Bulletins prior to use.



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