



TECHNICAL DATA SHEET

GF 209 METROMARK®

3.5 MIL MATTE WHITE OPAQUE TRANSIT VINYL CLEAR REMOVABLE ADHESIVE

GF 209 Metromark[®] is a 3.5 mil matte white polymeric flexible opaque vinyl film coated with a removable acrylic pressure-sensitive adhesive on a 90# layflat liner printed with the Metromark[®] logo. This film is designed to accept latex, solvent-based inkjet and UV curable inks common to wide format digital printing systems, and can be sheeted for screen printing. GF 209 is designed for temporary applications including product markings, point of purchase decals, transportation advertising systems, and tri-vision indoor/outdoor billboard displays. GF 209 will conform to simple curves and has excellent hiding characteristics for multi-layered graphics. The adhesive formulation allows for install on glass and OEM painted metal with a surface temperature of 20°F.

PRODUCT NAME	209		
FILM			
Film Type	White Polymeric Vinyl		
Film Thickness (mils / µm)	3.5 / 89 (+/- 10%)		
Film Weight (gsm)	130		
Gloss (60°)	≤20		
Opacity (%)	99		
Tensile Strength (psi)	MD ≥ 3500 / CD ≥ 2500		
Elongation (%)	$MD \ge 90 / CD \ge 200$		
Dimensional Stability (FTM 14)	$MD \le 0.30 \text{ mm} / CD \le 0.20 \text{ mm}$		
ADHESIVE			
Adhesive Type	Emulsion		
Adhesive Thickness (mils/µm)	0.8-1.0 / 20-25		
Adhesive Color	Clear		
Peel Strength on Stainless Steel (Ibs/in) / (N/25mm) 15 min	1.5 / 6.6		
Peel Strength on Stainless Steel (Ibs/in) / (N/25mm) 24 hrs	2.3 / 10		
LINER			
Liner Weight (#/gsm)	90 / <mark>145</mark>		
Liner Type	White 2-Sided PE Coated Kraft, backside logo liner		
Liner Thickness (mils/µm)	6.7 / 170		
Release Force @ 300" / min (g/2")	40-70		
PERFORMANCE GUIDANCE			
Application Temperature	≥ +20 °F		
Service Temperature	-40 °F to 180 °F		
Shelf Life	1 year		
Storage Temp / Rel. Humidity	70 °F / 50%		
Outdoor Durability	up to 5 years		
Removability	1 year		
RATINGS & CERTIFICATIONS			
Flammability	ASTM E84 Class 1 or A (Rating Standard Test Method for Surface Burn- ing Characteristics of Building Materials)		





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PRODUCT SNAPSHOT	APPLICATIONS		INK TYPE	
APPLICATION	• POP/RETAIL		SOLVENT	
O WET APPLY	• WALL		• ECO-SOLVENT	
DRY APPLY	• WRAP		• LATEX	
O LAMINATING	• WINDOW		• UV CURABLE	
O MOUNTING	O FLOOR		• SCREEN	
• DIE CUTTABLE	O TRANSLUCENT		• OFFSET (UV CURABLE)	
O HOT STAMP	TRANSIT		OFFSET (CONVENTIONAL)*	
O THERMAL DIE	GENERAL SIGNAGE			
• FLATBED CUTTABLE	• OUTDOOR (LONG TERM)			
SUBSTRATES				
• OEM PAINTED METAL				
PAINTED ALUMINUM				
STAINLESS STEEL				
• FIBERGLASS			* Topcoated verstion is available for conventiona offset printing.	
FAQS				
Is GF 209 MetroMark [®] Transit Approved?		Yes. MetroMark [®] is an approved and specified material for multiple transit-related applications including King/Queen/Tail bus advertisements, opaque removable graphics, and layered poster graphics.		
Can GF 209 be used as a wrap film?		MetroMark [®] is conformable film that can go around simple curved surfaces. The adhesive system is strong enough to hold your graphic in place, but robust enough to remove cleanly.		
Can you put GF 209 over the top of existing graphics?		Yes. GF 209 is opaque and can be layered on top of existing graphics. These films can be used for one, two and three sheet subway advertis- ing posters, architectural signage, commercial-retail signage, industrial identification decals, safety decals, point-of-purchase graphics and oth er decals requiring extended life. Keep in mind, adhesive vinyl product can bond with other vinyl materials and might not allow MetroMark [®] to be removed cleanly from other graphics.		
Should MetroMark [®] be laminated?		Although it is not necessary to laminate MetroMark [®] , you may choose to do so depending upon what type of abrasion and or cleaning detergents the graphics will encounter. GF 100 series overlaminates are recommended in those situations.		

For Standard Terms & Conditions: www.generalformulations.com/terms-conditions