

# Product Bulletin

**GF 209**

## **METROMARK™ - Transit Graphics Vinyl**

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GF 209 is a 3.5-mil matte white flexible polymeric opaque vinyl film coated with 200-4996 removable acrylic pressure-sensitive adhesive on a 90# layflat liner with the Metromark™ logo. This film is designed to accept a variety of solvent-based inkjet and UV curable inks common to wide format digital printing systems.

<b>Applications</b>	GF 209 is designed for temporary product markings, temporary point of purchase decals, temporary transportation advertising systems, and tri-vision indoor/outdoor billboard displays.
<b>Temperature Ranges</b>	Minimum application temperature is +40°F. Service temperature is -40°F to +180°F.
<b>Expected Exterior Exposure</b>	Removable for up to one year from most smooth original equipment finishes with little or no residue remaining on the finish.
<b>Substrate Recommendation</b>	Metromark™ films are designed for use on smooth, flat substrates. The product should not be applied over rivets or corrugated surfaces. Gaps between two panels must be sealed before applying Metromark™ Vinyl. Up to three layers may be applied provided the original Metromark™ signage has been applied six months or less. If layering, must test adhesion of top decal to the printed surface. Some inks and clear over-prints contain slip agents that may reduce adhesion.
<b>Substrate Protection</b>	Metromark™ will not damage the painted surface on stable OEM or repainted motor coach surfaces. Note: Stable paint surface is defined as a positive paint bond between paint and paint receptive surface of at least 320 ounces per inch peel adhesion.
<b>Humidity Resistance</b>	Excellent.
<b>Solvent Resistance</b>	Excellent.
<b>Shelf Stability</b>	6-months shelf life when stored at 70°F and 50% relative humidity.



*Manufacturers of  
Pressure Sensitive Films*

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**Thickness**  
White Opaque Vinyl Film 3.5 mils.  
Removable Acrylic Adhesive .8 to 1.0 mils.  
90# Layflat Release Liner 6.7 mils.  
(Thickness variation +/- 10%)

**Dimensional Stability**  
**% Change**  
**24 Hrs on aluminum @ 150 F**  
MD: less than 0.50.  
CD: less than 0.50.

**Elongation (% to Break)**  
**ASTM D-882**  
MD: 110 +/-50.  
CD: 250 +/-75.

**Tensile Strength**  
**ASTM D-882**  
**psi to break**  
MD: 4000 +/-500  
CD: 3500 +/-500

**Minimum Expected Shear**  
**PSTC-7 @ 4 psi**  
**Room Temperature**  
1 hour

**Adhesion Properties:**  
**PSTC-1**  
**24 Hr Dwell**  
**Room Temperature**  
Average (Oz/ Inch Width)  
Stainless Steel 16  
Painted Metal\*\* 16  
Glass 10

\*\* OEM Basecoat – Clear coat system

**Product Codes**  
209-54 (54" X 150' roll)  
209-62 (62" X 150' roll)  
209-64 (64" X 150' roll)

**Recommendations**  
Completely evaporate inkjet solvents before application. Failure to do so may facilitate solvent penetration resulting in vinyl degradation.



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