

## 209 SERIES METROMARK – TRANSIT GRAPHICS VINYL

209 Series is a 90 mic matte white flexible polymeric opaque vinyl film coated with 200-4996 removable acrylic pressure-sensitive adhesive on a 135 gsm 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>	209 Series 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    +4,4°Celsius Service temperature                        -40°C to +82°C.
<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 2.2596 Nm 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 21°C and 50% relative humidity.

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### Thickness

White Opaque Vinyl Film	90 mic.
Removable Acrylic Adhesive	20 to 25 mic 90#
Layflat Release Liner	135 gsm
(Thickness variation +/- 10%)	

### Dimensional Stability

% Change	MD: less than 0.50.
24 Hrs on aluminum @ 65 °C	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:

		Average (Oz/ Inch Width)	
PSTC-1	Stainless Steel	4,38	N/25mm
24 Hr Dwell	Painted Metal**	4,38	N/25mm
Room Temperature	Glass	2,74	N/25mm

\*\* OEM Basecoat – Clear coat system

### Recommendations

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