

TECHNICAL DATA SHEET

GF 277 METROGRAFIX™

4.0 MIL MATTE WHITE OPAQUE VINYL CLEAR REMOVABLE ADHESIVE

GF 277 MetroGrafix™ is a 4.0 mil Matte White Opaque vinyl with a high-tack, removable solvent adhesive. MetroGrafix™ is ideal for short to medium term Transit Bus Wraps. GF 277 is a polymeric conformable vinyl that can be used for simple or compound curved surfaces. This film is designed to accept a variety of solvent, latex, UV curable and UV solvent screen inks common to wide format digital printing systems. MetroGrafix™ offers excellent opacity and can be used on top of existing bus graphics. The 90# Layflat logo liner allows for good lay-flat application. GF 277 can also be used in short to long-term wall applications. **Approved by OUTFRONT Media for Train Wraps.**

PRODUCT NAME	277
FILM	
Film Type	White Polymeric Vinyl
Film Thickness (mils / μm)	4.0 / 102 (+/- 10%)
Film Weight (gsm)	160
Gloss (60°)	≤ 20
Opacity (%)	99
Tensile Strength (psi)	MD ≥ 3500 / CD ≥ 2800
Elongation (%)	MD ≥ 90 / CD ≥ 150
Dimensional Stability (FTM 14)	MD ≤ 0.30 mm / CD ≤ 0.30 mm
ADHESIVE	
Adhesive Type	Solvent Acrylic
Adhesive Thickness (mils/ μm)	0.7-0.9 / 18-23
Adhesive Color	Clear
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 15 min	1.2 / 5.3
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs	1.5 / 6.6
Peel Strength on OEM Paint Glass (lbs/in) / (N/25mm) 15 min	1.2 / 5.3 1.2 / 5.3
Peel Strength on OEM Paint Glass (lbs/in) / (N/25mm) 24 hrs	1.7 / 7.4 1.4 / 6.1
LINER	
Liner Weight (#/gsm)	90 / 145
Liner Type	White 2-sided PE-Coated Kraft
Liner Thickness (mils/ μm)	6.7 / 170
Release Force @ 300" / min (g/2")	50
PERFORMANCE GUIDANCE	
Application Temperature	$\geq +40$ °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

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PRODUCT SNAPSHOT	APPLICATIONS	INK TYPE
<p>APPLICATION</p> <ul style="list-style-type: none"> ● WET APPLY ● DRY APPLY ○ LAMINATING ○ MOUNTING ● DIE CUTTABLE ○ HOT STAMP ○ THERMAL DIE ● FLATBED CUTTABLE 	<ul style="list-style-type: none"> ● POP/RETAIL ● WALL ● WRAP ● WINDOW ○ FLOOR ○ TRANSLUCENT ● FLEET ● GENERAL SIGNAGE ● OUTDOOR (LONG TERM) 	<ul style="list-style-type: none"> ● SOLVENT ● ECO-SOLVENT ● LATEX ● UV CURABLE ● SCREEN ● OFFSET (UV CURABLE) ○ OFFSET (CONVENTIONAL)
<p>SUBSTRATES</p> <ul style="list-style-type: none"> ● OEM PAINTED METAL ● PAINTED ALUMINUM ● STAINLESS STEEL ● FIBERGLAS ● ACRYLIC 		

FAQS

Is GF 277 MetroGrafix™ “OUTFRONT Approved”?	MetroGrafix™ is currently approved by OUTFRONT Media for Train Wraps.
Can I use MetroGrafix™ on other substrates?	GF 277 MetroGrafix™ uses a unique adhesive system that provides excellent adhesion and clean removability from multiple surfaces like glass, acrylic, stainless steel, and smooth painted drywall.
Can you put MetroGrafix™ over the top of existing graphics?	Yes. GF 277 is opaque and can be layered on top of existing graphics (as long as the base graphics have been on no longer than 6 months).
Should MetroGrafix™ be laminated?	Although it is not necessary to laminate MetroGrafix™, it will depend upon what type of abrasion and or cleaning detergents the graphics will encounter. GF 100 series overlaminates can be used in those cases.