

# TECHNICAL DATA SHEET

## GF 277 METROGRAFIX™

4.0 MIL MATTE WHITE OPAQUE TRANSIT VINYL  
CLEAR REMOVABLE ADHESIVE

GF 277 MetroGrafix™ is a 4.0 mil Opaque White vinyl. 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.

PRODUCT NAME	GF 277 METROGRAFIX
<b>FILM</b>	
Film Type	Polymeric PVC
Film Thickness (mils / $\mu$ m)	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 ≤ 0.50 mm / CD ≤ 0.50 mm
<b>ADHESIVE</b>	
Adhesive Type	Solvent
Adhesive Thickness (mils/ $\mu$ m)	0.7-0.9 / 18-23
Adhesive Color	Clear
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 15 min	1.0 / 4.4
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs	1.5 / 6.6
Peel Strength on OEM Painted (lbs/in) / (N/25mm) 15 min	1.2 / 5.3
Peel Strength on OEM Painted (lbs/in) / (N/25mm) 24 hrs	1.7 / 7.4
<b>LINER</b>	
Liner Weight (#/gsm)	90# / 145
Liner Type	White PE-Coated Kraft
Liner Thickness (mils)	6.7
Release Force @ 300" / min (g/2")	50
<b>PERFORMANCE GUIDANCE</b>	
Application Temperature	≥ +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

GF 277 | AUGUST 2019

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

### FAQS

Is GF 277 MetroGrafix™ “OUTFRONT Approved”?	MetroGrafix™ is currently approved for “Headliners” on OUTFRONT buses.
Can GF 277 be used as a wrap film?	MetroGrafix™ is conformable film that can go around compound curved surfaces. The main applications for GF 277 are Bus and Train Wraps (body/tail).
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.