

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 and also for Headliners, Super Kings, and Ultra Super Kings.**

| 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 |

TECHNICAL DATA SHEET

GF 277 - 4.0 MIL MATTE WHITE VINYL CLEAR REMOVABLE ADHESIVE

| PRODUCT SNAPSHOT | APPLICATIONS | INK TYPE |
|---|---|---|
| APPLICATION <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) |
| SUBSTRATES <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 for Headliners, Super Kings, and Ultra Super Kings, and is designed for bus and train car 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. |