

# TECHNICAL DATA SHEET

## GF 221AE

6.0 MIL GLOSS WHITE SEMI-RIGID VINYL  
CLEAR LOW-TACK REMOVABLE ADHESIVE  
WITH AIR EGRESS

GF 221AE is a 6.0 mil gloss white semi-rigid vinyl with a removable acrylic pressure sensitive adhesive on a 90# Air Egress liner. This vinyl is designed to accept a variety of solvent-based, UV curable and latex inks common to wide format digital printing systems. GF 221AE is a removable decal film designed for ease of application of temporary interior or exterior signage (up to 3 years), decals, and point-of-purchase displays. Semi-Rigid films are easy to handle due to their rigidity and thus can be applied quickly.

| PRODUCT NAME                                                | 221AE                                    |
|-------------------------------------------------------------|------------------------------------------|
| <b>FILM</b>                                                 |                                          |
| Film Type                                                   | White Intermediate Vinyl                 |
| Film Thickness (mils/μm)                                    | 6.0 / 152 (+/- 10%)                      |
| Film Weight (gsm)                                           | 200                                      |
| Gloss (60°)                                                 | ≥ 70                                     |
| Opacity (%)                                                 | 98                                       |
| Tensile Strength (lbs/in <sup>2</sup> )                     | MD ≥ 3500 / CD ≥ 3500                    |
| Elongation (%)                                              | MD ≥ 60 / CD ≥ 60                        |
| Dimensional Stability (FTM 14)                              | MD ≤ 0.50 mm / CD ≤ 0.50 mm              |
| <b>ADHESIVE</b>                                             |                                          |
| Adhesive Type                                               | Emulsion Acrylic                         |
| Adhesive Thickness (mils/μm)                                | 0.8-1.0 / 20-25                          |
| Adhesive Color                                              | Clear                                    |
| Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 15 min | 0.08-0.30 / 0.3-1.3                      |
| Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs | 0.08-0.30 / 0.3-1.3                      |
| Peel Strength on Glass (lbs/in) / (N/25mm) 15 min           | 0.04-0.30 / 0.2-1.3                      |
| Peel Strength on Glass (lbs/in) / (N/25mm) 24 hrs           | 0.04-0.30 / 0.2-1.3                      |
| <b>LINER</b>                                                |                                          |
| Liner Weight (#/gsm)                                        | 90 / 145                                 |
| Liner Type                                                  | White 2-Sided PE-Coated Kraft Air Egress |
| Liner Thickness (mils/μm)                                   | 7.0 / 180                                |
| Release Force @ 300" / min (g/2")                           | 70-130                                   |
| <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 3 years                            |
| Removability                                                | Up to 1 year                             |

*\*All values provided are typical averages intended for guidance only and should not be interpreted as product specifications or warranties.*

GF 221AE | SEPTEMBER 2026

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## GF 221AE - 6.0 MIL GLOSS WHITE SEMI-RIGID VINYL CLEAR LOW-TACK REMOVABLE ADHESIVE WITH AIR EGRESS

| PRODUCT SNAPSHOT                                                                                                                                                                                                                                                                                                                                        | APPLICATIONS                                                                                                                                                                                                                                                                                                                                                                                     | INK TYPE                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APPLICATION</b><br><input type="radio"/> WET APPLY<br><input checked="" type="radio"/> DRY APPLY<br><input type="radio"/> LAMINATING<br><input type="radio"/> MOUNTING<br><input checked="" type="radio"/> DIE CUTTABLE<br><input type="radio"/> HOT STAMP<br><input type="radio"/> THERMAL DIE<br><input checked="" type="radio"/> FLATBED CUTTABLE | <input checked="" type="radio"/> POP/RETAIL<br><input type="radio"/> WALL<br><input type="radio"/> WRAP<br><input checked="" type="radio"/> WINDOW<br><input type="radio"/> FLOOR<br><input type="radio"/> TRANSLUCENT<br><input type="radio"/> FLEET<br><input checked="" type="radio"/> GENERAL SIGNAGE<br><input checked="" type="radio"/> INDOOR<br><input checked="" type="radio"/> OUTDOOR | <input checked="" type="radio"/> SOLVENT<br><input checked="" type="radio"/> ECO-SOLVENT<br><input checked="" type="radio"/> LATEX<br><input checked="" type="radio"/> UV CURABLE<br><input checked="" type="radio"/> SCREEN<br><input checked="" type="radio"/> OFFSET (UV CURABLE)<br><input type="radio"/> OFFSET (CONVENTIONAL) |
| <b>SUBSTRATES</b><br><input checked="" type="radio"/> OEM PAINTED METAL<br><input checked="" type="radio"/> PAINTED ALUMINUM<br><input checked="" type="radio"/> STAINLESS STEEL<br><input checked="" type="radio"/> GLASS<br><input type="radio"/> LOW-ENERGY SURFACES                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                     |

### FAQS

|                                                                        |                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Can I use GF 221AE on other surfaces?                                  | GF 221AE works great with flat, smooth surfaces. It is a great solution for temporary store front applications requiring bond to windows.                                                                                                                                 |
| What if I leave GF 221AE on past it's optimal removability time frame? | GF 221AE will always be removable, but you may have some percentage of adhesive transfer when left on past the 1 year clean removal timeline.                                                                                                                             |
| Can this product be used on Elevators?                                 | These types of doors may have a clear coat or other type of protection. This product is not designed for coated/sealed/treated stainless steel, brass or bronze surfaces. It is best to contact the facility manager and determine the best product for this application. |

For Standard Terms & Conditions: [www.generalformulations.com/terms-conditions](http://www.generalformulations.com/terms-conditions)

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