

**TECHNICAL  
DATA  
SHEET**

# GF 790AE PRINT-N-PRIVACY™

3.0 MIL POLYMERIC GLASS ETCH VINYL (LIGHT)  
CLEAR SOLVENT PERMANENT ADHESIVE

GF 790AE Print-N-Privacy™ is a 3.0 mil decorative polymeric glass etch vinyl coated with a solvent based permanent acrylic pressure sensitive adhesive with a 90# air egress (AE) liner. This film can either be applied printed or unprinted for etched glass visual effect or for use as a privacy film. The 90# AE liner offers easy dry application properties for large format graphics. GF 790AE accepts a variety of solvent-based, eco-solvent, latex and UV curable inks common to wide format digital printing systems.

| PRODUCT NAME  | 790AE                                     |
|---|---|
| <b>FILM</b>   |   |
| Film Type   | Light-Etched Polymeric Vinyl              |
| Film Thickness (mils/μm)                                    | 3.0 / 76 (+/- 10%)                        |
| Film Weight (gsm)   | 95  |
| Gloss (60°)   | ≤10                                       |
| Opacity (%)   | 25  |
| Tensile Strength (lbs/in)                                   | MD ≥ 3000 / CD ≥ 2800                     |
| Elongation (%)  | MD ≥ 180 / CD ≥ 200                       |
| Dimensional Stability (FTM 14)                              | MD ≤ 0.50 mm / CD ≤ 0.30 mm               |
| <b>ADHESIVE</b>   |   |
| Adhesive Type   | Solvent 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 | 2.1 / 9.2                                 |
| Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs | 3.3 / 14                                  |
| Peel Strength on Glass (lbs/in) / (N/25mm) 15 min           | 3.5 / 15                                  |
| Peel Strength on Glass (lbs/in) / (N/25mm) 24 hrs           | 4.2 / 18                                  |
| <b>LINER</b>  |   |
| Liner Weight (#/gsm)  | 100 / 160                                 |
| Liner Type  | White 2-Sided PE Coated Kraft, Air-Egress |
| Liner Thickness (mils/μm)                                   | 7.8 / 198                                 |
| Release Force @ 300" / min (g/2")                           | 55-75                                     |
| <b>PERFORMANCE GUIDANCE</b>                                 |   |
| Application Temperature                                     | ≥ +40 °F                                  |
| Service Temperature   | -40 °F to 200 °F                          |
| Shelf Life  | 1 year                                    |
| Storage Temp / Rel. Humidity                                | 70 °F / 50%                               |
| Outdoor Durability  | 7 years                                   |
| Removability  | N/A                                       |

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## GF 790AE - 3.0 MIL POLYMERIC GLASS ETCH VINYL (LIGHT) CLEAR SOLVENT PERMANENT ADHESIVE

| PRODUCT SNAPSHOT  | APPLICATIONS   | INK TYPE  |
|---|--|---|
| <p><b>APPLICATION</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> WET APPLY</li> <li><input checked="" type="radio"/> DRY APPLY</li> <li><input type="radio"/> LAMINATING</li> <li><input type="radio"/> MOUNTING</li> <li><input checked="" type="radio"/> DIE CUTTABLE</li> <li><input type="radio"/> HOT STAMP</li> <li><input type="radio"/> THERMAL DIE</li> <li><input checked="" type="radio"/> FLATBED CUTTABLE</li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="radio"/> POP/RETAIL</li> <li><input type="radio"/> WALL</li> <li><input type="radio"/> WRAP</li> <li><input checked="" type="radio"/> WINDOW</li> <li><input type="radio"/> FLOOR</li> <li><input type="radio"/> TRANSLUCENT</li> <li><input type="radio"/> FLEET</li> <li><input checked="" type="radio"/> GENERAL SIGNAGE</li> <li><input checked="" type="radio"/> INDOOR</li> <li><input checked="" type="radio"/> OUTDOOR</li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="radio"/> SOLVENT</li> <li><input checked="" type="radio"/> ECO-SOLVENT</li> <li><input checked="" type="radio"/> LATEX</li> <li><input checked="" type="radio"/> UV CURABLE</li> <li><input type="radio"/> SCREEN</li> <li><input type="radio"/> OFFSET (UV CURABLE)</li> <li><input type="radio"/> OFFSET (CONVENTIONAL)</li> </ul> |
| <p><b>SUBSTRATES/SURFACES</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> OEM PAINTED METAL</li> <li><input type="radio"/> PAINTED ALUMINUM</li> <li><input type="radio"/> STAINLESS STEEL</li> <li><input type="radio"/> LOW-ENERGY SURFACES</li> <li><input checked="" type="radio"/> GLASS</li> </ul>   |  |   |

### FAQS

|  |  |
|--|--|
| Can I use GF 790AE for other applications??                        | <p>This product is recommended for use where a high quality glass etch vinyl film is desired to simulate etched glass. This film can be used for commercial and residential applications to glass. Typical dry applications include glass doors and windows.</p> <p>Note: Film not designed for cut lettering or to be repositioned (permanent adhesive). Application or transfer tape is recommended for easier application. (NOTE: Air-Egress adhesives are DRY APPLY ONLY).</p>                       |
| If I dont have a soft edged squeegee can I use a regular squeegee? | <p>We do not recommend this unless the graphics have application tape on them. GF 790AE has translucent qualities and is a clear calendared vinyl, and as such may show squeegee marks. Regular squeegees may have burrs or uneven edges which may make impressions in the vinyl. Sometimes you “may” be able to heat these impressions out (depending on their severity), but we do not recommend heating the film on a cold glass surface, as cracking may occur. It is best to use a softer edge.</p> |

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## GF 790AE TECHNICAL INFORMATION

### APPLICATIONS AND USES

#### Prepping the Glass surface:

- The application surface should be clean and free of any dirt, dust, grease, oil, wax, or foreign matter. Use a product such as Rapid Prep to clean many of these compounds. Clean the glass surface thoroughly with a non-ammonia based cleaner (Windex and other products have additives and may leave residue and they also have “surfactants” that can cause a bond failure between the substrate and the adhesive).
- This cleaning should be followed by a final wiping with isopropyl alcohol. (IPA/Rubbing alcohol 50/50).
- Use a window squeegee wherever possible to draw away most of the fluids.
- Dry the surface with a dry, lint-free towel or cloth.
- The flashing of the IPA may cool the surface quickly and cause possible condensation. Allow the surface to dwell for 10 minutes before applying the graphic.

Dry application is the preferred method of installing any vinyl graphics that have air-egress channels. The fluids can get trapped in the channels and cause the fluid to get trapped and bubbles will form.

#### Recommended Application Techniques:

790AE is a calendared vinyl and proper squeegee techniques are required. We recommend using application tape where possible. With application tape you can be more aggressive and use regular squeegees without fear of scratching the surface of the vinyl. Pre-mask also keeps everything flat, which decreases the instance of bubbles. In situations where you either cannot use or do not want to use application tape, we strongly recommend using a soft-edged or Teflon-covered squeegee. If you choose to use a hard-edged squeegee it is normal in some situations to see squeegee marks, or darker impressions where the edge of the squeegee had pushed down some of the air-egress channels, causing the vinyl to have dark lines throughout. These dark areas will disappear over 12-24 hours and the air-egress channels relax and wet-out. For tips and tricks on applying 790AE, please visit our YouTube channel [GF 790AE PRINT-N-PRIVACY VIDEO](#).