GENERAL FORMULATIONS

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 on a 90# air egress (AE) liner. This film can either be applied printed or unprinted for an 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
FILM	
Film Type	Light-Etched Polymeric Vinyl
Film Thickness (mils/µm)	3.0 / 76 (+/- 10%) before emboss
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
ADHESIVE	
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
LINER	
Liner Weight (#/gsm)	90 / 45
Liner Type	White 2 Sided PE Coated Kraft, Air-Egress
Liner Thickness (mils/µm)	7.0 / 180
Release Force @ 300" / min (g/2")	50-70
PERFORMANCE GUIDANCE	
Application Temperature	≥ +40 °F
Service Temperature	-40 °F to 200 °F
Shelf Life	up to 1 year
Storage Temp / Rel. Humidity	70 °F / 50%
Outdoor Durability	up to 7 years
Removability	N/A

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

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CLEAR SOLVENT PERMANENT ADHESIVE

PRODUCT SNAPSHOT

APPLICATION

- ❍ WET APPLY
- ● DRY APPLY
- ❍ LAMINATING
- ❍ MOUNTING
- ● DIE CUTTABLE
- ❍ HOT STAMP
- ❍ THERMAL DIE
- ● FLATBED CUTTABLE

SUBSTRATES/SURFACES

- ❍ OEM PAINTED METAL
- ❍ PAINTED ALUMINUM
- ❍ STAINLESS STEEL
- ❍ LOW-ENERGY SURFACES
- ● GLASS

APPLICATIONS

- ● POP/RETAIL
- ❍ WALL
- ❍ WRAP
- ● WINDOW
- ❍ FLOOR
- ❍ TRANSLUCENT
- ❍ FLEET
- ● GENERAL SIGNAGE
- ● INDOOR
- ● OUTDOOR

INK TYPE

- ● SOLVENT
- ● ECO-SOLVENT
- ● LATEX
- ● UV CURABLE
- ❍ SCREEN
- ❍ OFFSET (UV CURABLE)
- ❍ OFFSET (CONVENTIONAL)

FAQS

Can I use GF 790AE for other applications??	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. 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).
If I dont have a soft edged squeegee can I use a regular squeege?	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.

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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 recommended 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.

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