

**TECHNICAL
DATA
SHEET**

GF 2010APAE

3.4 MIL MATTE WHITE VINYL GREY PERMANENT OPAQUE ADHESIVE

GF 2010APAE is a 3.4 mil polymeric matte white flexible calendered PVC film coated with a grey permanent air-egress acrylic pressure sensitive adhesive laminated to a 90# air-egress layflat liner. This film is designed to accept a variety of solvent-based inkjet and UV curable inks common to wide format digital printing systems. The grey adhesive creates a permanent bond to a variety of common substrates used in graphics applications. The 90# air-egress layflat liner offers excellent product layflat in a variety of ambient conditions along with ease of application of large format graphics.

PRODUCT NAME	2010APAE
FILM	
Film Type	White Polymeric Vinyl
Film Thickness (mils/ μ m)	3.4 / 86 (+/- 10%)
Film Weight (gsm)	120
Gloss (60°)	≤ 20
Opacity (%)	≥ 99
Tensile Strength (lbs/in)	MD ≥ 3000 / CD ≥ 2600
Elongation (%)	MD ≥ 90 / CD ≥ 150
Dimensional Stability (FTM 14)	MD ≤ 0.50 mm / CD ≤ 0.20 mm
ADHESIVE	
Adhesive Type	Emulsion Acrylic
Adhesive Thickness (mils/ μ m)	0.8-1.1 / 20-28
Adhesive Color	Grey
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 15 min	2.9 / 13
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs	4.7 / 21
LINER	
Liner Weight (#/gsm)	90 / 145
Liner Type	White 2-Sided PE Coated Kraft Air-Egress
Liner Thickness (mils/ μ m)	6.7 / 170
Release Force @ 300" / min (g/2")	55-75
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

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

FAQS	
What applications is GF 2010APAE intended for?	GF 2010APAE is designed for interior or exterior signage, decals, nameplates, point-of-purchase displays and added opacity with the grey opaque adhesive. The air-egress adhesive allows for bubble-free applications. (NOTE: Air-Egress adhesives are DRY APPLY ONLY).
Can GF 2010APAE be removed?	Most decals can be removed with some effort, even if they have a permanent adhesive. GF 2010APAE has a grey permanent adhesive that works on a variety of surfaces. This adhesive is permanent and will not remove cleanly, but any adhesive transfer or residue can be cleaned up easily with standard adhesive removers.
Do I need a special application tape to remove cut shapes and graphics from the 2030APAE?	Many application/transfer tapes will stick to the face of the vinyl. For transporting graphics we would recommend a tape that sticks to the exposed air-egress liner. A product like Transferite® AirMask® 510U is an example of this type of premask.