

**TECHNICAL
DATA
SHEET**

GF 160

3.0 MIL GLOSS CLEAR LAMINATE CLEAR PERMANENT ADHESIVE

GF 160 is a 3.0 mil gloss clear vinyl laminate featuring a pressure-sensitive permanent acrylic adhesive, mounted on a smooth, 75# 2-sided poly-coated liner. This calendered vinyl laminate provides outstanding protection against abrasion and moisture, making it perfect for cold laminating. It's specifically designed to protect digitally printed graphics in exhibit and display environments. GF 160 is ideal for both interior and short-term exterior applications. With its gloss finish, it works well with various ink types, including solvent, latex, and UV-curable inks typically used in wide-format digital printing. GF 160 is an excellent choice for signage, windows, and decals, suitable for both printed and flat laminating applications.

PRODUCT NAME	160
FILM	
Film Type	Clear Monomeric Vinyl
Film Thickness (mils/ μ m)	3.0 / 76 (+/- 10%)
Film Weight (gsm)	105
Gloss (60°)	≥ 70
Opacity (%)	N/A
Tensile Strength (psi)	MD ≥ 3800 / CD ≥ 3500
Elongation (%)	MD ≥ 180 / CD ≥ 200
Dimensional Stability (FTM 14)	MD ≤ 1.5 mm / CD ≤ 1.0 mm
ADHESIVE	
Adhesive Type	Emulsion Acrylic
Adhesive Thickness (mils/ μ m)	0.8-1.1 / 20-28
Adhesive Color	Clear
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 15 min	3.5 / 15
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs	5.0 / 22
LINER	
Liner Weight (#/gsm)	75 / 120
Liner Type	White 2-Sided Polyc-Coated Kraft
Liner Thickness (mils/ μ m)	5.0 / 125
Release Force @ 300" / min (g/2")	40-90
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 3 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 checked="" type="radio"/> LAMINATING <input type="radio"/> MOUNTING <input checked="" type="radio"/> DIE CUTTABLE <input type="radio"/> HOT STAMP <input type="radio"/> THERMAL DIE <input checked="" type="radio"/> FLATBED CUTTABLE 	<ul style="list-style-type: none"> <input checked="" type="radio"/> POP/RETAIL <input checked="" type="radio"/> WALL <input type="radio"/> WRAP <input type="radio"/> WINDOW <input type="radio"/> FLOOR <input checked="" type="radio"/> TRANSLUCENT <input checked="" type="radio"/> TRANSIT (FLAT/SIMPLE) <input checked="" type="radio"/> GENERAL SIGNAGE <input checked="" type="radio"/> OUTDOOR (SHORT TERM) 	<ul style="list-style-type: none"> <input type="radio"/> SOLVENT <input type="radio"/> ECO-SOLVENT <input type="radio"/> LATEX <input type="radio"/> UV CURABLE <input type="radio"/> SCREEN <input type="radio"/> OFFSET (UV CURABLE) <input type="radio"/> OFFSET (CONVENTIONAL)
<p>SUBSTRATES</p> <ul style="list-style-type: none"> <input type="radio"/> OEM PAINTED METAL <input type="radio"/> PAINTED ALUMINUM <input type="radio"/> STAINLESS STEEL <input type="radio"/> FIBERGLASS <input type="radio"/> ACRYLIC <input checked="" type="radio"/> PRINTED GRAPHICS 		

FAQS

Can GF 160 laminate be used on any kind of vehicle graphics?	No. GF 160 is ideal for flat or very slight curves. In the cases of vehicles, it is best to use a conformable, long-term laminate that matches the specifications of the wrap (print) vinyl used. GF 160 laminate is meant for applications where up to one year of durability is needed and is not meant to be stretched or to conform.
Will a Calendered laminate like GF 160 work on a Cast print vinyl?	No. You can apply a cast laminate to a calendered vinyl, but you should never put a calendered laminate on a cast vinyl. They must be of a similar construction so that over time they shrink at the same rate to avoid delamination.