

# TECHNICAL DATA SHEET

## GF 400

### 3.0 MIL GLOSS CLEAR UV LAMINATE CLEAR PERMANENT ADHESIVE

GF 400 is a 3.0 mil gloss clear UV pressure sensitive vinyl laminate that offers resistance to ultraviolet degradation with a permanent acrylic adhesive on a smooth 53# liner. This calendered PVC laminate also protects graphics from abrasion and moisture. GF 400 is best applied by the cold laminating process without the addition of heat and is designed to protect digital and screen printed images for exhibit and display graphics. GF 400 can be used in most instances where an overlay with a high gloss finish is required on interior or exterior applications.

PRODUCT NAME	400
<b>FILM</b>	
Film Type	Clear Intermediate Vinyl
Film Thickness (mils/ $\mu$ m)	3.0 / 76 (+/- 10%)
Film Weight (gsm)	100
Gloss (60°)	$\geq 70$
Opacity (%)	N/A
Tensile Strength (psi)	MD $\geq 4000$ / CD $\geq 3600$
Elongation (%)	MD $\geq 225$ / CD $\geq 250$
Dimensional Stability (FTM 14)	MD $\leq 1.20$ mm / CD $\leq 0.80$ mm
<b>ADHESIVE</b>	
Adhesive Type	Emulsion Acrylic
Adhesive Thickness (mils/ $\mu$ m)	0.8-1.1 / 20-28
Adhesive Color	Clear
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 15 min	2.8 / 12
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs	4.5 / 20
<b>LINER</b>	
Liner Weight (#/gsm)	53 / 86
Liner Type	White PE-Coated 1 side Kraft
Liner Thickness (mils/ $\mu$ m)	3.5 / 89
Release Force @ 300" / min (g/2")	10-40
<b>PERFORMANCE GUIDANCE</b>	
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 4 years

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PRODUCT SNAPSHOT	APPLICATIONS	INK TYPE
<b>APPLICATION</b> <ul style="list-style-type: none"> <li><input type="radio"/> WET APPLY</li> <li><input checked="" type="radio"/> DRY APPLY</li> <li><input checked="" 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 type="radio"/> WINDOW</li> <li><input type="radio"/> FLOOR</li> <li><input checked="" type="radio"/> TRANSLUCENT</li> <li><input checked="" type="radio"/> TRANSIT (FLAT/SIMPLE)</li> <li><input checked="" type="radio"/> GENERAL SIGNAGE</li> <li><input checked="" type="radio"/> OUTDOOR (LONG TERM)</li> </ul>	<ul style="list-style-type: none"> <li><input type="radio"/> SOLVENT</li> <li><input type="radio"/> ECO-SOLVENT</li> <li><input type="radio"/> LATEX</li> <li><input 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>
<b>SUBSTRATES</b> <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"/> FIBERGLAS</li> <li><input type="radio"/> ACRYLIC</li> </ul>		

### FAQS

Can GF 400 laminate be used on any kind of vehicle graphics?	No. GF 400 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. 400 Series laminates are not meant to be stretched or to conform.
Will a Calendered laminate like GF 400 work on a Polymeric or 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.