

# TECHNICAL DATA SHEET

## GF 103

### 5.0 MIL CLEAR TEXTURED MATTE POLYCARBONATE LAMINATE CLEAR PERMANENT ADHESIVE

GF 103 is a 5.0 mil clear textured matte polycarbonate laminating film. This polycarbonate laminate has a clear permanent acrylic adhesive on a 1.5 mil polyester film liner. 103 offers protection from abrasion and moisture in interior applications. GF 103 is best applied by using a cold laminating process (heat is not recommended). GF 103 laminate is designed to protect digital image prints and screen-printed images for exhibit and display graphics. GF 103 can be used in most instances where a laminate with non-glare properties is required.

PRODUCT NAME	103
<b>FILM</b>	
Film Type	Clear Polycarbonate
Film Thickness (mils/μm)	5.0 / 127 (+/- 10%)
Film Weight (gsm)	130
Gloss (60°)	5-15
Opacity (%)	N/A
Tensile Strength (psi)	MD ≥ 7000 / CD ≥ 7000
Elongation (%)	MD ≥ 150 / CD ≥ 150
Dimensional Stability (FTM 14)	MD ≤ 0.20 mm / CD ≤ 0.10 mm
<b>ADHESIVE</b>	
Adhesive Type	Solvent Acrylic
Adhesive Thickness (mils/μm)	1.4-1.6 / 36-41
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	6.0 / 26
<b>LINER</b>	
Liner Weight (#/gsm)	N/A
Liner Type	Clear Polyester
Liner Thickness (mils/μm)	1.5 / 38
Release Force @ 300" / min (g/2")	15-35
<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	Indoor only

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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 type="radio"/> TRANSLUCENT</li> <li><input checked="" type="radio"/> GENERAL SIGNAGE</li> <li><input checked="" type="radio"/> INDOOR</li> <li><input type="radio"/> OUTDOOR</li> <li><input checked="" type="radio"/> TRADE SHOW GRAPHICS</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 checked="" type="radio"/> PRINTED GRAPHICS</li> <li><input type="radio"/> ACRYLIC</li> </ul>		

### FAQS

What types of applications is GF 103 good for?	This laminate can be used on graphics for flat, curved or rolled display applications. GF 103 is also ideal for protecting graphics on counter tops or frequent contact areas, or for adding rigidity and durability to graphics used in trade show displays.
Can I use GF 103 for a floor laminate?	No. Although GF 103 is textured, it is not rated for slip resistance.
Do you have any tips for keeping my graphic from curling?	GF 103 is designed as a cold laminate. If you experience curl and the tension on your pull rollers is minimal, try reducing the heat, reduce the pressure and reduce the speed of your take-up reel.