

**TECHNICAL  
DATA  
SHEET**
**GF 220**
**6.0 MIL GLOSS WHITE SEMI-RIGID VINYL  
CLEAR PERMANENT ADHESIVE**

GF 220 is a 6.0 mil gloss white semi-rigid vinyl with a permanent acrylic pressure sensitive adhesive on a 90# liner. This vinyl is designed to accept a variety of solvent-based, UV curable and latex inks common to wide format digital printing systems. GF 220 is a permanent vinyl designed for ease of application of temporary interior or exterior signage, decals, nameplates, die-cut letters and point-of-purchase displays. Semi-Rigid films are easy to handle due to their rigidity and thus can be applied quickly.

<b>PRODUCT NAME</b>	<b>220</b>
<b>FILM</b>	
Film Type	White Intermediate Vinyl
Film Thickness (mils/ $\mu$ m)	6.0 / 152 (+/- 10%)
Film Weight (gsm)	200
Gloss (60°)	$\geq 70$
Opacity (%)	98
Tensile Strength (lbs/in)	MD $\geq 3500$ / CD $\geq 3500$
Elongation (%)	MD $\geq 60$ / CD $\geq 60$
Dimensional Stability (FTM 14)	MD $\leq 1.10$ mm / CD $\leq 1.00$ mm
<b>ADHESIVE</b>	
Adhesive Type	Emulsion Acrylic
Adhesive Thickness (mils/ $\mu$ m)	0.8-1.0 / 20-25
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)	90 / 145
Liner Type	White 2-Sided PE-Coated Kraft
Liner Thickness (mils/ $\mu$ m)	6.7 / 170
Release Force @ 300" / min (g/2")	90-130
<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 3 years
Removability	N/A

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PRODUCT SNAPSHOT	APPLICATIONS	INK TYPE
<p><b>APPLICATION</b></p> <ul style="list-style-type: none"> <li><input type="radio"/> WET APPLY</li> <li><input checked="" type="radio"/> DRY APPLY</li> <li><input 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 type="radio"/> FLEET</li> <li><input checked="" type="radio"/> GENERAL SIGNAGE</li> <li><input checked="" type="radio"/> INDOOR</li> <li><input checked="" type="radio"/> OUTDOOR</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="radio"/> SOLVENT</li> <li><input checked="" type="radio"/> ECO-SOLVENT</li> <li><input checked="" type="radio"/> LATEX</li> <li><input checked="" type="radio"/> UV CURABLE</li> <li><input checked="" type="radio"/> SCREEN</li> <li><input checked="" type="radio"/> OFFSET (UV CURABLE)</li> <li><input type="radio"/> OFFSET (CONVENTIONAL)</li> </ul>
<p><b>SUBSTRATES/SURFACES</b></p> <ul style="list-style-type: none"> <li><input checked="" type="radio"/> OEM PAINTED METAL</li> <li><input checked="" type="radio"/> PAINTED ALUMINUM</li> <li><input checked="" type="radio"/> STAINLESS STEEL</li> <li><input type="radio"/> FIBERGLAS</li> <li><input type="radio"/> LOW-ENERGY SURFACES</li> </ul>		

FAQS	
Do I need to use application tape with GF 220?	Most people have great success using the GF 220 without application tape. The added thickness of this product allows installers to handle this material easily. The dimensional stability also means that the product won't stretch during application.
Is GF 220 Semi-Rigid good for bumper sticker applications?	Although you could use GF 220 for bumper sticker type applications, you generally would use a removable type of decal for ease of removal down the road. Permanent adhesives may have some degree of adhesive transfer depending upon the duration of the application.
What are some unique applications for permanent Semi-Rigid vinyls?	Semi Rigid films have good dimensional stability. If you match this feature with other high-quality laminates you can create signage for these types of applications: <ul style="list-style-type: none"> <li>- A graffiti protected sign when laminated with GF 108 Tedlar® by DuPont™ anti-graffiti laminate.</li> <li>- A commercial grade dry erase board when laminated with GF 110 EraseMark Pro™ dry erase laminate.</li> </ul>