

**TECHNICAL  
DATA  
SHEET**
**GF 221**
**6.0 MIL GLOSS WHITE SEMI-RIGID VINYL  
CLEAR LOW-TACK REMOVABLE ADHESIVE**

GF 221 is a 6.0 mil gloss white semi-rigid vinyl with a low-tack removable 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 221 is a removable decal film 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>221</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 $\leq 0.50$ mm / CD $\leq 0.50$ 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	0.06-0.12 / 0.2-0.4
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs	0.08-0.20 / 0.3-0.9
Peel Strength on Glass (lbs/in) / (N/25mm) 15 min	0.04-0.20 / 0.2-0.9
Peel Strength on Glass (lbs/in) / (N/25mm) 24 hrs	0.04-0.30 / 0.2-1.3
<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	Up to 1 year

# TECHNICAL DATA SHEET

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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 checked="" 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 checked="" type="radio"/> GLASS</li> <li><input type="radio"/> LOW-ENERGY SURFACES</li> </ul>		

### FAQS

Can I use GF 221 on other surfaces?	GF 221 works great with flat, smooth surfaces. It is a great solution for temporary store front applications requiring bond to windows.
What if I leave GF 221 on past it's optimal removability time frame?	221 will always be removable, but you may have some percentage of adhesive transfer when left on past the 1 year clean removal timeline.
Can this product be used on Elevators?	These types of doors may have a clear coat or other type of protection. This product is not designed for coated/sealed/treated stainless steel, brass or bronze surfaces. It is best to contact the facility manager and determine the best product for this application.