

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.

PRODUCT NAME	221
FILM	
Film Type	White Intermediate Vinyl
Film Thickness (mils/ μ m)	6.0 / 152 (+/- 10%)
Film Weight (gsm)	200
Gloss (60°)	≥ 70
Opacity (%)	98
Tensile Strength (lbs/in)	MD ≥ 3500 / CD ≥ 3500
Elongation (%)	MD ≥ 60 / CD ≥ 60
Dimensional Stability (FTM 14)	MD ≤ 0.50 mm / CD ≤ 0.50 mm
ADHESIVE	
Adhesive Type	Emulsion Acrylic
Adhesive Thickness (mils/ μ 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
LINER	
Liner Weight (#/gsm)	90 / 145
Liner Type	White 2-Sided PE-Coated Kraft
Liner Thickness (mils/ μ m)	6.7 / 170
Release Force @ 300" / min (g/2")	90-130
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
Removability	Up to 1 year

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

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.