

TECHNICAL DATA SHEET

GF 223

6.0 MIL MATTE WHITE SEMI-RIGID VINYL CLEAR LOW-TACK REMOVABLE ADHESIVE

GF 223 is a 6.0 mil matte white semi-rigid vinyl with a 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 223 is a removable decal film designed for ease of application of temporary interior or exterior signage, decals, nameplates, diecut 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	223
FILM	
Film Type	White Polymeric Vinyl
Film Thickness (mils/ μ m)	6.0 / 152 (+/- 10%)
Film Weight (gsm)	215
Gloss (60°)	≤ 20
Opacity (%)	99
Tensile Strength (lbs/in ²)	MD ≥ 3300 / CD ≥ 3200
Elongation (%)	MD ≥ 100 / CD ≥ 125
Dimensional Stability (FTM 14)	MD ≤ 0.50 mm / CD ≤ 0.20 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	0.04-0.10 / 0.2-0.4
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs	0.07-0.20 / 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 / $\geq +10$ °F ❄️ (cold weather tested for glass applications only)
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 ○ WET APPLY ● DRY APPLY ○ LAMINATING ○ MOUNTING ● DIE CUTTABLE ○ HOT STAMP ○ THERMAL DIE ● FLATBED CUTTABLE	● POP/RETAIL ○ WALL ○ WRAP ● WINDOW ○ FLOOR ○ TRANSLUCENT ○ FLEET ● GENERAL SIGNAGE ● INDOOR ● OUTDOOR ❄️ OUTDOOR (COLD TEMPS) This has been tested for glass applications only at these low temps. Recommended laminating any films less than 6mil thick for ease of application. For best results apply film dry in these low temperatures.	● SOLVENT ● ECO-SOLVENT ● LATEX ● UV CURABLE ● SCREEN ● OFFSET (UV CURABLE) ○ OFFSET (CONVENTIONAL)
SUBSTRATES ● OEM PAINTED METAL ● PAINTED ALUMINUM ● STAINLESS STEEL ● GLASS ○ LOW-ENERGY SURFACES		

FAQS

Can I use GF 223 on other surfaces?	GF 223 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 223 on past it's optimal removability time frame?	GF 223 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.