

# TECHNICAL DATA SHEET

## GF 232 WINDOWMARK™

6.0 MIL MATTE WHITE PERFORATED VINYL (50/50)  
CLEAR REMOVABLE ADHESIVE

GF 232 is a 6.0 mil perforated high performance vinyl film with a white print side and a black see through side coated with a clear low tack repositionable removable solvent acrylic pressure sensitive adhesive designed for exterior/outside mounted one-way view-through window graphics. The vinyl will accept a variety of wide format digital printing inks including solvent, eco-solvent, UV and Latex. The dual layflat liner construction, perforated/solid liner, offers good dimensional stability in a variety of ambient conditions and is cross compatible with wide-format digital inkjet printer platforms including UV. The adhesive is designed to cleanly remove from glass with little to no adhesive residue.

PRODUCT NAME	232
<b>FILM</b>	
Film Type	White/Black Monomeric Vinyl
Film Thickness (mils/μm)	6.0 / 152 (+/- 10%)
Film Weight (gsm)	100
Gloss (60°)	N/A
Opacity (%)	N/A
Tensile Strength (lbs/in)	N/A
Elongation (%)	N/A
Dimensional Stability (FTM 14)	MD ≤ 0.30 mm / CD ≤ 0.30 mm
<b>ADHESIVE</b>	
Adhesive Type	Solvent Acrylic
Adhesive Thickness (mils/μm)	0.8-1.0 / 20-25
Adhesive Color	Clear
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 15 min	0.9 / 3.9
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs	1.6 / 7.0
<b>LINER</b>	
Liner Weight (#/gsm)	95 / 160
Liner Type	Dual Layer (Perforated/Solid) White 2-Sided PE-Coated Kraft
Liner Thickness (mils/μm)	9.2 / 235
Release Force @ 300" / min (g/2")	50-75
<b>PERFORMANCE GUIDANCE</b>	
Application Temperature	≥ +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 year
Removability	Up to 1 year

# TECHNICAL DATA SHEET

## GF 232 - 6.0 MIL MATTE WHITE PERFORATED VINYL CLEAR REMOVABLE ADHESIVE

PRODUCT SNAPSHOT	APPLICATIONS	INK TYPE
<b>APPLICATION</b> <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	<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	<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)
<b>SUBSTRATES/SURFACES</b> <input type="radio"/> OEM PAINTED METAL <input type="radio"/> PAINTED ALUMINUM <input type="radio"/> STAINLESS STEEL <input checked="" type="radio"/> GLASS <input checked="" type="radio"/> ACRYLIC		

### FAQS

What applications are GF 232 good for?	GF 232 works great with flat, smooth transparent surfaces. It is a great solution for temporary store front applications and medium-term applications requiring view-through capabilities and bond to windows.
What if I leave GF 232 on past it's optimal removability time frame?	GF 232 will always be removable, but you may have some percentage of adhesive transfer when left on past the 1 year clean removal timeline.
Is GF 232 good for vehicle windows?	Yes. GF 232 has a 50/50 perf pattern (50%) which gives the operator optimal viewing from the inside of the vehicle.