

# 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 2 years
Removability	Up to 1 year

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PRODUCT SNAPSHOT	APPLICATIONS	INK TYPE
<b>APPLICATION</b> <ul style="list-style-type: none"> <li>○ WET APPLY</li> <li>● DRY APPLY</li> <li>○ LAMINATING</li> <li>○ MOUNTING</li> <li>● DIE CUTTABLE</li> <li>○ HOT STAMP</li> <li>○ THERMAL DIE</li> <li>● FLATBED CUTTABLE</li> </ul>	<ul style="list-style-type: none"> <li>● POP/RETAIL</li> <li>○ WALL</li> <li>○ WRAP</li> <li>● WINDOW</li> <li>○ FLOOR</li> <li>○ TRANSLUCENT</li> <li>○ FLEET</li> <li>● GENERAL SIGNAGE</li> <li>● INDOOR</li> <li>● OUTDOOR</li> </ul>	<ul style="list-style-type: none"> <li>● SOLVENT</li> <li>● ECO-SOLVENT</li> <li>● LATEX</li> <li>● UV CURABLE</li> <li>● SCREEN</li> <li>● OFFSET (UV CURABLE)</li> <li>○ OFFSET (CONVENTIONAL)</li> </ul>
<b>SUBSTRATES/SURFACES</b> <ul style="list-style-type: none"> <li>○ OEM PAINTED METAL</li> <li>○ PAINTED ALUMINUM</li> <li>○ STAINLESS STEEL</li> <li>● GLASS</li> <li>● ACRYLIC</li> </ul>		

### 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.

For Standard Terms & Conditions: [www.generalformulations.com/terms-conditions](http://www.generalformulations.com/terms-conditions)

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