

# TECHNICAL DATA SHEET

## GF 224 TRANSMARK™

3.2 MIL MATTE WHITE TRANSLUCENT VINYL  
CLEAR PERMANENT ADHESIVE

GF 224 TransMark™ is an 3.2 mil matte white translucent polymeric vinyl film with a clear permanent adhesive, laminated to a 90# layflat liner. This product is a premium pressure sensitive vinyl with uniform light diffusion properties used to produce backlit displays and other applications that require backlighting. GF 224 is designed to accept a variety of solvent-based, latex and UV curable inks.

PRODUCT NAME	224
<b>FILM</b>	
Film Type	White Polymeric Vinyl
Film Thickness (mils/μm)	3.2 / 81 (+/- 10%)
Film Weight (gsm)	100
Gloss (60°)	≤ 10
Opacity (%)	60-70
Tensile Strength (lbs/in)	MD ≥ 2800 / CD ≥ 3200
Elongation (%)	MD ≥ 150 / CD ≥ 180
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	3.0 / 13
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs	5.8 / 25
<b>LINER</b>	
Liner Weight (#/gsm)	90 / 145
Liner Type	White 2-sided PE-Coated Kraft
Liner Thickness (mils/μm)	6.7 / 170
Release Force @ 300" / min (g/2")	15-30
<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 5 years
Removability	N/A

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PRODUCT SNAPSHOT	APPLICATIONS	INK TYPE
<b>APPLICATION</b> <ul style="list-style-type: none"> <li><input checked="" 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 checked="" type="radio"/> TRANSLUCENT</li> <li><input checked="" type="radio"/> FLEET</li> <li><input checked="" type="radio"/> GENERAL SIGNAGE</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>
<b>SUBSTRATES</b> <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"/> GLASS</li> <li><input checked="" type="radio"/> POLYCARBONATE</li> <li><input checked="" type="radio"/> ACRYLIC</li> </ul>		

FAQS	
Should I laminate GF 224?	GF 224 TransMark™ has up to a 3 year outdoor life expectancy without lamination, however to get the most out of your graphics and make them more durable, you can use GF 101 Lustre Laminate for added protection.
What types of applications are recommended for GF 224?	GF 224 TransMark(TM) works in applications such as backlit vehicle or bus signs, retail displays, and illuminated artwork.