

TECHNICAL DATA SHEET

GF 102

3.0 MIL MATTE CLEAR LAMINATE CLEAR PERMANENT ADHESIVE

GF 102 is a 3.0 mil matte clear pressure sensitive vinyl laminate with a permanent acrylic adhesive on a smooth 53# liner. This calendared vinyl laminate protects graphics from abrasion and moisture. GF 102 is best applied by the cold laminating process without the addition of heat and is designed to protect digital and screen printed images for exhibit and display graphics. GF 102 can be used in most instances where an overlay with a matte finish is required on interior or exterior applications.

PRODUCT NAME	102
FILM	
Film Type	Clear Intermediate Vinyl
Film Thickness (mils/ μ m)	3.0 / 76 (+/- 10%)
Film Weight (gsm)	95
Gloss (60°)	≤ 20
Opacity (%)	N/A
Tensile Strength (psi)	MD ≥ 4000 / CD ≥ 3600
Elongation (%)	MD ≥ 180 / CD ≥ 200
Dimensional Stability (FTM 14)	MD ≤ 1.30 mm / CD $\leq .90$ mm
ADHESIVE	
Adhesive Type	Emulsion Acrylic
Adhesive Thickness (mils/ μ m)	0.8-1.1 / 20-28
Adhesive Color	Clear
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 15 min	2.9 / 13
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs	4.4 / 19
LINER	
Liner Weight (#/gsm)	53 / 86
Liner Type	White PE-Coated 1 side Kraft
Liner Thickness (mils/ μ m)	3.5 / 89
Release Force @ 300" / min (g/2")	10-40
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 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 ☒ TRANSIT (FLAT/SIMPLE) ☒ GENERAL SIGNAGE ☒ OUTDOOR (SHORT TERM)	☐ SOLVENT ☐ ECO-SOLVENT ☐ LATEX ☐ UV CURABLE ☐ SCREEN ☐ OFFSET (UV CURABLE) ☐ OFFSET (CONVENTIONAL)
SUBSTRATES ☐ OEM PAINTED METAL ☐ PAINTED ALUMINUM ☐ STAINLESS STEEL ☐ FIBERGLASS ☐ ACRYLIC ☒ PRINTED GRAPHICS		

FAQS

Can GF 102 laminate be used on any kind of vehicle graphics?	No. GF 102 is ideal for flat or very slight curves. In the cases of vehicles, it is best to use a conformable, long-term laminate that matches the specifications of the wrap (print) vinyl used. GF 100 Series laminates are meant for applications where up to one year of durability is needed. GF 100 series laminates are not meant to be stretched or to conform.
Will a Calendered laminate like GF 102 work on a Polymeric or Cast print vinyl?	No. You can apply a cast laminate to a calendered vinyl, but you should never put a calendered laminate on a cast vinyl. They must be of a similar construction so that over time they shrink at the same rate to avoid delamination.