

**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 ≤ .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 | ≥ +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 |
|--|--|---|
| <p>APPLICATION</p> <ul style="list-style-type: none"> <input type="radio"/> WET APPLY <input checked="" type="radio"/> DRY APPLY <input checked="" 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 | <ul style="list-style-type: none"> <input checked="" type="radio"/> POP/RETAIL <input checked="" type="radio"/> WALL <input type="radio"/> WRAP <input type="radio"/> WINDOW <input type="radio"/> FLOOR <input checked="" type="radio"/> TRANSLUCENT <input checked="" type="radio"/> TRANSIT (FLAT/SIMPLE) <input checked="" type="radio"/> GENERAL SIGNAGE <input checked="" type="radio"/> OUTDOOR (SHORT TERM) | <ul style="list-style-type: none"> <input type="radio"/> SOLVENT <input type="radio"/> ECO-SOLVENT <input type="radio"/> LATEX <input type="radio"/> UV CURABLE <input type="radio"/> SCREEN <input type="radio"/> OFFSET (UV CURABLE) <input type="radio"/> OFFSET (CONVENTIONAL) |
| <p>SUBSTRATES</p> <ul style="list-style-type: none"> <input type="radio"/> OEM PAINTED METAL <input type="radio"/> PAINTED ALUMINUM <input type="radio"/> STAINLESS STEEL <input type="radio"/> FIBERGLASS <input type="radio"/> ACRYLIC <input checked="" type="radio"/> PRINTED GRAPHICS | | |

FAQS

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| 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. |