GF 400 is a 3.0 mil gloss clear UV pressure sensitive vinyl laminate that offers resistance to ultraviolet degradation with a permanent acrylic adhesive on a smooth 53# liner. This calendered PVC laminate also protects graphics from abrasion and moisture. GF 400 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 400 can be used in most instances where an overlay with a high gloss finish is required on interior or exterior applications.

### TECHNICAL DATA SHEET

**GF 400**

**3.0 MIL GLOSS CLEAR UV LAMINATE CLEAR PERMANENT ADHESIVE**

---

**PRODUCT NAME**

<table>
<thead>
<tr>
<th>400</th>
</tr>
</thead>
</table>

#### FILM

- **Film Type**: Clear Intermediate Vinyl
- **Film Thickness (mils/μm)**: 3.0 / 76 (+/- 10%)
- **Film Weight (gsm)**: 100
- **Gloss (60°)**: >70
- **Opacity (%)**: N/A
- **Tensile Strength (psi)**: MD > 4000 / CD > 3600
- **Elongation (%)**: MD > 225 / CD > 250
- **Dimensional Stability (FTM 14)**: MD ≤ 1.20 mm / CD ≤ 0.80 mm

#### ADHESIVE

- **Adhesive Type**: Emulsion Acrylic
- **Adhesive Thickness (mils/μm)**: 0.8-1.1 / 20-28
- **Adhesive Color**: Clear
- **Peel Strength on Stainless Steel (lbs/in) / (N/25mm)**: 15 min 2.8 / 12; 24 hrs 4.5 / 20

#### LINER

- **Liner Weight (#/gsm)**: 53 / 86
- **Liner Type**: White PE-Coated 1 side Kraft
- **Liner Thickness (mils/μm)**: 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 4 years
# TECHNICAL DATA SHEET

**GF 400 - 3.0 MIL GLOSS CLEAR UV LAMINATE**

**CLEAR PERMANENT ADHESIVE**

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

---

## PRODUCT SNAPSHOT

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>APPLICATIONS</th>
<th>INK TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WET APPLY</td>
<td>POP/RETAIL</td>
<td>SOLVENT</td>
</tr>
<tr>
<td>DRY APPLY</td>
<td>WALL</td>
<td>ECO-SOLVENT</td>
</tr>
<tr>
<td>LAMINATING</td>
<td>WRAP</td>
<td>LATEX</td>
</tr>
<tr>
<td>MOUNTING</td>
<td>WINDOW</td>
<td>UV CURABLE</td>
</tr>
<tr>
<td>DIE CUTTABLE</td>
<td>FLOOR</td>
<td>SCREEN</td>
</tr>
<tr>
<td>HOT STAMP</td>
<td>TRANSLUCENT</td>
<td>OFFSET (UV CURABLE)</td>
</tr>
<tr>
<td>THERMAL DIE</td>
<td>TRANSIT (FLAT/SIMPLE)</td>
<td>OFFSET (CONVENTIONAL)</td>
</tr>
<tr>
<td>FLATBED CUTTABLE</td>
<td>GENERAL SIGNAGE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OUTDOOR (LONG TERM)</td>
<td></td>
</tr>
</tbody>
</table>

## SUBSTRATES

- OEM PAINTED METAL
- PAINTED ALUMINUM
- STAINLESS STEEL
- FIBERGLAS
- ACRYLIC

---

## FAQS

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Can GF 400 laminate be used on any kind of vehicle graphics?</td>
<td>No. GF 400 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. 400 Series laminates are not meant to be stretched or to conform.</td>
</tr>
<tr>
<td>Will a Calendered laminate like GF 400 work on a Polymeric or Cast print vinyl?</td>
<td>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.</td>
</tr>
</tbody>
</table>