GENERAL FORMULATIONS

TECHNICAL DATA SHEET

# GF 231 AUTOMARK®

## 2.4 MIL GLOSS UV WRAP LAMINATE
## CLEAR PERMANENT ADHESIVE

GF 231 is a premium 2.4 mil calendered gloss clear laminate with a clear permanent acrylic adhesive on a 53# PE-coated kraft liner. This laminate offers protection from ultra violet radiation, moisture and other environmental exposures. It is can be laminated by using a cold laminating process without the addition of heat and is intended to be paired with GF 230 AutoMark® calendered vinyl for wrap applications. GF 231 AutoMark® premium 2.4 mil calendered gloss laminate is specifically engineered for use in most vehicle wrap and decal applications.

| PRODUCT NAME | 231 |
|---|---|
| **FILM** | |
| Film Type | Clear Polymeric Vinyl |
| Film Thickness (mils/µm) | 2.4 / 61 (+/- 10%) |
| Film Weight (gsm) | 75 |
| Gloss (60°) | ≥ 70 |
| Opacity (%) | N/A |
| Tensile Strength (lbs/in) | MD ≥ 4000 / CD ≥ 3500 |
| Elongation (%) | MD ≥ 225 / CD ≥ 300 |
| Dimensional Stability (FTM 14) | MD ≤ 0.50 mm / CD ≤ 0.20 mm |
| **ADHESIVE** | |
| 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 | 2.5 / 11 |
| Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs | 3.8 / 17 |
| **LINER** | |
| Liner Weight (#/gsm) | 53 / 86 |
| Liner Type | White PE-Coated 1 side Kraft |
| Liner Thickness (#/gsm) | 3.5 / 89 |
| Release Force @ 300" / min (g/2") | 15-30 |
| **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 7 years |
| **PERFORMANCE GUIDANCE** | |
| Flammability *(when used with GF 230 AutoMark®)* | ASTM E84 Class 1 or A (Rating Standard Test Method for Surface Burning Characteristics of Building Materials) |



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## GF 231 - 2.4 GLOSS UV WRAP LAMINATE

## CLEAR PERMANENT ADHESIVE

### PRODUCT SNAPSHOT

**APPLICATION**

- ❍ WET APPLY
- ● DRY APPLY
- ● LAMINATING
- ● DIE CUTTABLE
- ❍ HOT STAMP
- ❍ THERMAL DIE
- ● FLATBED CUTTABLE

**SUBSTRATES**

- ❍ OEM PAINTED METAL
- ❍ PAINTED ALUMINUM
- ❍ STAINLESS STEEL
- ● PRINTED GRAPHICS

### APPLICATIONS

- ❍ POP/RETAIL
- ❍ WALL
- ● WRAP
- ❍ WINDOW
- ❍ FLOOR
- ● FLEET
- ● GENERAL SIGNAGE
- ● OUTDOOR (LONG TERM)

### INK TYPE

- ❍ SOLVENT
- ❍ ECO-SOLVENT
- ❍ LATEX
- ❍ UV CURABLE
- ❍ SCREEN
- ❍ OFFSET (UV CURABLE)
- ❍ OFFSET (CONVENTIONAL)

### FAQS

| | |
|---|---|
| What are the intended applications for GF 231? | This laminate is best suited for long-term outdoor graphics. GF 231 AutoMark® Wrap Laminate was created to be paired with GF 230 AutoMark® Wrap Vinyl to create long lasting outdoor graphics for vehicle wrap and decal applications. |
| Can I use GF 231 AutoMark® laminate with other print vinyls? | GF 231 will work well with most base vinyls, however for optimal success you will want to pair similar products together. |
| Can I use a laminate other than GF 231 AutoMark® Wrap Laminate with GF 230 AutoMark® Wrap Vinyl? | Although other laminates may work, the warranty outlined by General Formulations is only in effect if the warranted AutoMark® products are used. The AutoMark® series of laminates are customize for this specific application (2.4 mil polymeric vinyls ideal for simple curves). We recommend filling out the application checklist on our website to ensure a successful installation. Videos are available on YouTube as well that outline specific techniques. |

For Standard Terms & Conditions: www.generalformulations.com/terms-conditions



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