

# TECHNICAL DATA SHEET

## GF 219

### 6.0 MIL GLOSS CLEAR SEMI-RIGID VINYL CLEAR LOW-TACK REMOVABLE ADHESIVE

GF 219 is a 6.0 mil gloss clear semi-rigid vinyl with a clear low-tack removable acrylic pressure sensitive adhesive on a 90# liner. This vinyl is designed to accept a variety of solvent-based, eco-solvent, latex and UV curable inks common to wide format digital printing systems. The clear removable adhesive works on a variety of common substrates used in graphics applications. The 90# liner offers excellent product layflat in a variety of ambient conditions along with ease of application of large format graphics. Semi-Rigid films are easy to handle due to their rigidity and thus can be applied quickly.

| PRODUCT NAME  | 219                                   |
|---|---------------------------------------|
| <b>FILM</b>   |                                       |
| Film Type   | Clear Intermediate Vinyl              |
| Film Thickness (mils/ $\mu$ m)                              | 6.0 / 152 (+/- 10%)                   |
| Film Weight (gsm)   | 165                                   |
| Gloss (60°)   | $\geq 75$                             |
| Opacity (%)   | N/A                                   |
| Tensile Strength (lbs/in)                                   | MD $\geq 4800$ / CD $\geq 4600$       |
| Elongation (%)  | MD $\geq 250$ / CD $\geq 250$         |
| Dimensional Stability (FTM 14)                              | MD $\leq 0.50$ mm / CD $\leq 0.50$ mm |
| <b>ADHESIVE</b>   |                                       |
| Adhesive Type   | Emulsion Acrylic                      |
| Adhesive Thickness (mils/ $\mu$ m)                          | 0.8-1.0 / 20-25                       |
| Adhesive Color  | Clear                                 |
| Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 15 min | 0.04-0.1 / 0.2-0.4                    |
| Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs | 0.04-0.2 / 0.2-0.9                    |
| Peel Strength on Glass (lbs/in) / (N/25mm) 15 min           | 0.04-0.2 / 0.2-0.9                    |
| Peel Strength on Glass (lbs/in) / (N/25mm) 24 hrs           | 0.04-0.3 / 0.2-1.3                    |
| <b>LINER</b>  |                                       |
| Liner Weight (#/gsm)  | 90 / 145                              |
| Liner Type  | White 2-Sided PE-Coated Kraft         |
| Liner Thickness (mils/ $\mu$ m)                             | 6.7 / 170                             |
| Release Force @ 300" / min (g/2")                           | 80-130                                |
| <b>PERFORMANCE GUIDANCE</b>                                 |                                       |
| 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 3 years                         |
| Removability  | Up to 1 year                          |

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| PRODUCT SNAPSHOT  | APPLICATIONS   | INK TYPE  |
|---|--|---|
| <p><b>APPLICATION</b></p> <ul style="list-style-type: none"> <li><input 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 type="radio"/> TRANSLUCENT</li> <li><input type="radio"/> FLEET</li> <li><input checked="" type="radio"/> GENERAL SIGNAGE</li> <li><input checked="" type="radio"/> OUTDOOR (MEDIUM TERM)</li> <li><input checked="" type="radio"/> INDOOR</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> |
| <p><b>SUBSTRATES</b></p> <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 type="radio"/> STAINLESS STEEL</li> <li><input type="radio"/> LOW-ENERGY SURFACES</li> <li><input checked="" type="radio"/> ACRYLIC</li> <li><input checked="" type="radio"/> GLASS</li> <li><input type="radio"/> POLYESTER</li> </ul>                   |  |   |

### FAQS

|  |   |
|--|---|
| What applications are GF 219 intended for? | GF 219 is designed for interior or exterior signage, decals, nameplates, point-of-purchase displays and general signage.  |
| Can GF 219 be removed?                     | GF 219 is rated for 1 year clean removability. If the vinyl is left on for longer, it will not adversely affect the glass surface, but may be harder to remove. |
| Is this product clear?                     | GF 219 has good clarity, but is not considered "optically clear".   |