

**7038 Series | Laminate: Intermediate Calendered, Standard Laminate**

Lumina® 7038 Series is an intermediate grade calendered vinyl laminate designed for use over calendered vinyl films to provide protection from UV exposure, chemicals, and abrasion. This product is ideal for general purpose applications and provides medium-term durability.

**Film Technology** | Calendered (PVC)

**Film Thickness** | 3.0 mil

**Color** | Clear Transparent

**Outdoor Durability** | 5 years

**Finish** | Gloss Clear (000), Matte Clear (200)

**Blockout** | No

**Adhesive** | Permanent / Clear

**Liner** | 53#

**Conformability** | Flat/Simple Curves

**Shelf Life** | 1 Year

<u><b>CUTTING</b></u>	<u><b>PRINTING</b></u>	<u><b>INSTALLATION</b></u>
<b>Computer Cut</b>   Yes <b>Steel Rule</b>   Yes <b>Thermal Die</b>   Yes <b>Flat Bed</b>   Yes <b>Sheetable</b>   Yes <b>Laminate</b>   Yes / Cold	<b>Thermal Transfer</b>   No <b>Solvent</b>   No <b>Eco-Solvent</b>   No <b>Latex</b>   No <b>UV</b>   No <b>Screen</b>   No	<b>Wet Apply</b>   No <b>Min. App. Temp.</b>   40°F <b>Interior / Exterior</b>   Yes

<p><b><u>FILM</u></b></p> <ul style="list-style-type: none"> <li>• <b>Film Thickness</b>__ (mils/μm) 3.0 / 76 (+/- 10%)</li> <li>• <b>Film Weight</b>__ (gsm) Gloss 100 – Matte 95</li> <li>• <b>Gloss</b>__ 60° Reflection (Gloss 70 Matte 20 Units)</li> <li>• <b>Opacity</b>__ (%) N/A</li> <li>• <b>Tensile Strength</b>__ (lbs/in) MD &gt; 4000 / CD &gt; 3600</li> <li>• <b>Elongation</b>__ (%) MD &gt; 225 / CD &gt; 250</li> <li>• <b>Dimensional Stability</b>__ (FTM 14) MD ≤ 1.20 mm / CD ≤ 0.80 mm</li> </ul>	<p><b><u>ADHESIVE</u></b></p> <ul style="list-style-type: none"> <li>• <b>Adhesive Type</b>__ Emulsion Acrylic</li> <li>• <b>Adhesive Thickness</b>__ (mils/μm) 0.8-1.1 / 20-28</li> <li>• <b>Adhesive Color</b>__ Clear</li> <li>• <b>Peel Strength</b>__ (lbs/in) (N/25mm) 24 hrs 4.5 / 20</li> </ul>
<p><b><u>LINER</u></b></p> <ul style="list-style-type: none"> <li>• <b>Liner Weight</b>__ (#/gsm) 53 / 86</li> <li>• <b>Liner Type</b>__ White PE-Coated 1 side Kraft</li> <li>• <b>Liner Thickness</b>__ (mils/μm) 3.5 / 89</li> <li>• <b>Release Force</b>__ @ 360" / min (g/2") 10-40</li> </ul>	<p><b><u>PERFORMANCE GUIDANCE</u></b></p> <ul style="list-style-type: none"> <li>• <b>Application Temp.</b>__ On clean, dry substrate &gt; +40 °F</li> <li>• <b>Service Temp.</b>__ -40 °F to 180 °F</li> <li>• <b>Shelf Life</b>__ up to 1 year</li> <li>• <b>Storage Temp. / Rel. Humidity</b>__ 70°F (21°C) and 50% relative humidity</li> <li>• <b>Outdoor Durability</b>__ up to 5 years</li> </ul>

NOTE - For further information regarding printing, substrate cleaning, application, maintenance, durability, and removal please review the corresponding instructional bulletin available at [fdcfilms.com](http://fdcfilms.com).

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