

### 2409 Series | Lumina Intermediate Utility Grade Reflective Film

Lumina series 2409 is an intermediate utility grade reflective film. This utility grade reflective film is for use in non-engineering grade applications and is intended for flat surfaces, vehicle markings and striping. To order punched material, use part number 2459.

**Film Technology** | Retroreflective

**Film Thickness** | 5.9 mil

**Color** | 11 colors – see color chart

**Outdoor Durability** | 5 Years

**Finish** | Gloss

**Blockout** | Yes

**Adhesive** | Permanent / Clear - Acrylic

**Liner** | 90# (Lay Flat)

**Conformability** | flat surfaces

**Shelf Life** | 1 Year

<b><u>CUTTING</u></b>	<b><u>PRINTING</u></b>	<b><u>INSTALLATION</u></b>
<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>   Yes <b>Solvent</b>   No <b>Eco-Solvent</b>   No <b>Latex</b>   No <b>UV</b>   No <b>Screen</b>   Yes	<b>Wet Apply</b>   No <b>Min. App. Temp.</b>   60°F <b>Interior / Exterior</b>   Yes

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<p><b><u>FILM</u></b></p> <ul style="list-style-type: none"> <li>• <b>Film Thickness</b>__ (mils/μm) 5.7 / 158 (+/- 10%)</li> <li>• <b>Gloss</b>__ (60°) &gt;87</li> <li>• <b>Opacity</b>__ (%) 98 (average - varies by color)</li> <li>• <b>Tensile Strength</b>__ (lbs/in) 26.4 N/25mm width</li> <li>• <b>Elongation</b>__ (%) MD &gt; 200 / CD &gt; 200</li> <li>• <b>Dimensional Stability</b>__ (FTM 14) 169%</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) N/A</li> <li>• <b>Adhesive Color</b>__ Clear</li> <li>• <b>Peel Strength on Aluminum</b>__ (lbs/in) / 0.2mm Overlap: 19.2mm</li> <li>• <b>Peel Strength on Stainless Steel</b>__ (lbs/in) / N/A</li> </ul>
<p><b><u>LINER</u></b></p> <ul style="list-style-type: none"> <li>• <b>Liner Weight</b>__ (#/gsm) 90 / 127</li> <li>• <b>Liner Type</b>__ White Clay Coated Kraft</li> <li>• <b>Liner Thickness</b>__ (mils/μm) N/A</li> <li>• <b>Release Force</b>__ N/A</li> </ul>	<p><b><u>PERFORMANCE GUIDANCE</u></b></p> <ul style="list-style-type: none"> <li>• <b>Min. Application Temp.</b>__ flat/smooth surface 59 °F</li> <li>• <b>Service Temp.</b>__ -22 °F to 176 °F</li> <li>• <b>Shelf Life</b>__ up to 1 year</li> <li>• <b>Storage Temp.</b> / Rel. Humidity__ 70 °F / 50%</li> <li>• <b>Outdoor Durability</b>__ up to 7 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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