Capran® 1500 Biaxially Oriented Nylon 6 Film

Description
Capran® 1500 is a 0.59 mil (15 micron) biaxially oriented nylon 6 film produced by Simultaneous Tenter Frame Orientation technology. It features a superior balance of properties, including high gas barrier, excellent flex crack resistance and outstanding optics. Capran® 1500 is well-suited for packaging applications requiring optimum protection and performance.

<table>
<thead>
<tr>
<th>Properties @ 73°F (22.7°C), 50% RH</th>
<th>Typical Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>English</td>
<td>Metric</td>
</tr>
<tr>
<td>Average Thickness</td>
<td>Target</td>
<td>0.590 mil</td>
</tr>
<tr>
<td></td>
<td>Tolerance</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>Basis Weight</td>
<td></td>
<td>10.588 lbs/ream</td>
</tr>
<tr>
<td>Yield</td>
<td></td>
<td>40,800 sq.in/lb</td>
</tr>
<tr>
<td>Tensile Strength @ Break MD</td>
<td></td>
<td>34,000 - 42,000 psi</td>
</tr>
<tr>
<td></td>
<td>MD</td>
<td>70 - 90%</td>
</tr>
<tr>
<td></td>
<td>TD</td>
<td>70 - 90%</td>
</tr>
<tr>
<td>Elongation @ Break</td>
<td></td>
<td>250,000 - 350,000 psi</td>
</tr>
<tr>
<td></td>
<td>MD</td>
<td>250,000 - 350,000 psi</td>
</tr>
<tr>
<td></td>
<td>TD</td>
<td>250,000 - 350,000 psi</td>
</tr>
<tr>
<td>Moulus, Secant</td>
<td></td>
<td>1,000 - 1,500 gf/mil</td>
</tr>
<tr>
<td></td>
<td>MD</td>
<td>&lt; 3.0%</td>
</tr>
<tr>
<td></td>
<td>TD</td>
<td>&lt; 2.5%</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td></td>
<td>&lt; 4.0%</td>
</tr>
<tr>
<td>Surface Tension</td>
<td>Treated Side</td>
<td>&gt; 56 dynes/cm</td>
</tr>
<tr>
<td></td>
<td>Untreated Side</td>
<td>50 - 54 dynes/cm</td>
</tr>
<tr>
<td>Coefficient of Friction, Kinetic</td>
<td>Film to Film</td>
<td>0.6 - 0.9</td>
</tr>
<tr>
<td></td>
<td>Film to Metal</td>
<td>0.2 - 0.3</td>
</tr>
<tr>
<td>Oxygen Transmission Rate @ 77°F/0% RH, 25°C/0% RH</td>
<td>3.0 - 4.0 cc/100 in²/day</td>
<td>47 - 62 cc/m²/day</td>
</tr>
<tr>
<td>Water Vapor Transmission Rate @ 100°F/100% RH, 37.7°C/100% RH</td>
<td>20 - 23 gm/100 in²/day</td>
<td>310 - 357 gm/m²/day</td>
</tr>
</tbody>
</table>

The properties presented in this data sheet are typical values and are not to be interpreted as product specifications.

Contact AdvanSix
To learn more about the benefits of Capran® films, visit AdvanSix.com/NylonSolutions or call 1-844-890-8949 (toll free, U.S./Can.) or +1-973-526-1800 (international)

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