MELINEX® TCH11

Product Description
MELINEX® TCH11 is a crystal clear, high gloss, polyester film engineered to maintain low haze after high temperature exposure. One side is pretreated with a primer designed to index match to hardcoats for flexible electronic applications.

Approvals
UL Recognition - Product has been registered with Underwriters Laboratories

Typical Properties

<table>
<thead>
<tr>
<th>Available Thickness [Gauge]</th>
<th>300; 400; 500</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Thickness</th>
<th>Value</th>
<th>Units</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELECTRICAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dielectric Constant</td>
<td>500</td>
<td>2.9</td>
<td>volts/mil</td>
<td>ASTM D150</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>500</td>
<td>3,000</td>
<td></td>
<td>ASTM D149</td>
</tr>
<tr>
<td>Surface Resistivity</td>
<td>500</td>
<td>10^13</td>
<td>Ohms/sq</td>
<td>ASTM D257</td>
</tr>
<tr>
<td>Volume Resistivity</td>
<td>500</td>
<td>10^17</td>
<td>Ohms-cm</td>
<td>ASTM D257</td>
</tr>
<tr>
<td><strong>OPTICAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Haze</td>
<td>500</td>
<td>0.3</td>
<td>%</td>
<td>ASTM D1003</td>
</tr>
<tr>
<td>Total Light Transmission (TLT)</td>
<td>500</td>
<td>&gt;90</td>
<td>%</td>
<td>ASTM D1003</td>
</tr>
<tr>
<td><strong>PHYSICAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C.O.F. (static)</td>
<td>500</td>
<td>&lt;0.6</td>
<td></td>
<td>ASTM D1894</td>
</tr>
<tr>
<td>Elongation at Break MD</td>
<td>500</td>
<td>190</td>
<td>%</td>
<td>ASTM D882A</td>
</tr>
<tr>
<td>Elongation at Break TD</td>
<td>500</td>
<td>120</td>
<td>%</td>
<td>ASTM D882A</td>
</tr>
<tr>
<td>Tensile Strength MD</td>
<td>500</td>
<td>25,000</td>
<td>psi</td>
<td>ASTM D882A</td>
</tr>
<tr>
<td>Tensile Strength TD</td>
<td>500</td>
<td>28,000</td>
<td>psi</td>
<td>ASTM D882A</td>
</tr>
<tr>
<td><strong>THERMAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coefficient of Hydrolytic Expansion</td>
<td>500</td>
<td>6X10^-6</td>
<td>in/in/% RH</td>
<td>40% - 80% RH</td>
</tr>
<tr>
<td>Coefficient of Thermal Expansion</td>
<td>500</td>
<td>10X10^-6</td>
<td>in/in/°F</td>
<td>(68 - 122 °F)</td>
</tr>
<tr>
<td>Shrinkage MD (150°C)</td>
<td>500</td>
<td>1.0</td>
<td>%</td>
<td>Unrestrained @150°C/30 min</td>
</tr>
<tr>
<td>Shrinkage TD (150°C)</td>
<td>500</td>
<td>0.5</td>
<td>%</td>
<td>Unrestrained @150°C/30 min</td>
</tr>
</tbody>
</table>

Contact Info
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Fax: (804) 530-9867

Disclaimer
Note: These values are typical performance data for DuPont Teijin Films' polyester film; they are not intended to be used as design data. We believe this information is the best currently available on the subject. It is offered as a possible helpful suggestion in experimentation you may care to undertake along these lines. It is subject to revision as additional knowledge and experience is gained. DuPont Teijin Films makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. This publication is not a license to operate under, or intended to suggest infringement of, any existing patents.

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