LEXAN™ PQ92W FILM
PRODUCT DATASHEET

DESCRIPTION

LEXAN™ PQ92W optical film is a high-performance coated film which may offer very good chemical/abrasion/UV resistance, together with improved surface quality and tighten gauge variation over standard LEXAN HP92W film. This highly durable, easily printed film may help create new opportunities in outdoor graphic applications.

TYPICAL PROPERTY VALUES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>UNITS (USCS)</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>ASTM D792 / ISO 1183</td>
<td>g/cm³</td>
<td>1.2</td>
</tr>
<tr>
<td>Surface Energy (Coated surface/</td>
<td>ASTM D5946-01</td>
<td>dynes/cm</td>
<td>(41/32)</td>
</tr>
<tr>
<td>Uncoated surface)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pencil Hardness (Coated surface/</td>
<td>ASTM D3363-05</td>
<td>--</td>
<td>(HB/38)</td>
</tr>
<tr>
<td>Uncoated surface)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taber Abrasion</td>
<td>ASTM D1044-05</td>
<td>delta Hazé%</td>
<td>5.15</td>
</tr>
</tbody>
</table>

OPTICAL

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>UNITS (USCS)</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haze (Average)</td>
<td>ASTM D1003 / ISO14782</td>
<td>%</td>
<td>0.7</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>ASTM D1003 / ISO13468</td>
<td>%</td>
<td>91</td>
</tr>
<tr>
<td>Yellowness Index</td>
<td>ASTM D1925</td>
<td>--</td>
<td>0.8</td>
</tr>
<tr>
<td>Specular Gloss</td>
<td>ASTM D52389</td>
<td>--</td>
<td>160</td>
</tr>
<tr>
<td>UV % transmission at 380 nm</td>
<td>UV/Visual Spectroscopy</td>
<td>%</td>
<td>35</td>
</tr>
</tbody>
</table>

THERMAL

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>UNITS (USCS)</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shrinkage at 150°C (302 °F)</td>
<td>ASTM D1204-02</td>
<td>%</td>
<td>1.49</td>
</tr>
<tr>
<td>-Machine Direction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-Web Direction</td>
<td></td>
<td>%</td>
<td>1.30</td>
</tr>
</tbody>
</table>

Notes

- All tests are done with 0.015" thick sample.
- Taber abrasion used 100 cycles with CS10F wheels and 500 grams load.

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