Delrin® Colors

.031”, .062” and .125” thick Delrin sheets, 24” x 48”, in a variety of colors

### Mechanical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Condition</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modulus of elasticity (Tensile test)</td>
<td>@ 73°F</td>
<td>350,000 psi</td>
<td>ASTM D 638</td>
</tr>
<tr>
<td>Tensile strength at yield</td>
<td>---</td>
<td>11,000 psi</td>
<td>ASTM D 638</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>@ 73°F</td>
<td>40%</td>
<td>ASTM D 638</td>
</tr>
<tr>
<td>Flexural strength</td>
<td>@ 73°F</td>
<td>14,000 psi</td>
<td>ASTM D 790</td>
</tr>
<tr>
<td>Modulus of elasticity (Flexural test)</td>
<td>@ 73°F</td>
<td>460,000 psi</td>
<td>ASTM D 790</td>
</tr>
<tr>
<td>Compression strength, 10% strain</td>
<td>@ 73°F</td>
<td>14,000 psi</td>
<td>ASTM D 695</td>
</tr>
<tr>
<td>Compression strength, 1% strain</td>
<td>@ 73°F</td>
<td>2,700 psi</td>
<td>ASTM D 695</td>
</tr>
<tr>
<td>Compression modulus</td>
<td>@ 73°F</td>
<td>460,000 psi</td>
<td>ASTM D 695</td>
</tr>
<tr>
<td>Impact strength (IZOD)</td>
<td>@ 73°F</td>
<td>1.50 ft-lbs/in</td>
<td>ASTM D 256</td>
</tr>
<tr>
<td>Rockwell hardness - R scale</td>
<td>@ 73°F</td>
<td>120</td>
<td>ASTM D 785</td>
</tr>
<tr>
<td>Coefficient of friction (dynamic)</td>
<td>40 psi, 50 fpm</td>
<td>0.20</td>
<td>ASTM D 3702</td>
</tr>
<tr>
<td>Wear rate</td>
<td>40 psi, 50 fpm</td>
<td>55* 10^-10</td>
<td>ASTM D 3702 (1)</td>
</tr>
</tbody>
</table>

### Thermal Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Condition</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting temperature</td>
<td>---</td>
<td>347 °F</td>
<td>ASTM D 2133 (2)</td>
</tr>
<tr>
<td>Deflection temperature</td>
<td>@ 1.80 MPa</td>
<td>208 °F</td>
<td>ISO-R Meth A (3)</td>
</tr>
<tr>
<td>Service temperature</td>
<td>Intermittent</td>
<td>300 °F</td>
<td>---</td>
</tr>
<tr>
<td>Service temperature</td>
<td>Long term</td>
<td>185 °F</td>
<td>---</td>
</tr>
</tbody>
</table>

### Other Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Condition</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moisture absorption (saturation)</td>
<td>@ 73°F</td>
<td>0.90 %</td>
<td>ASTM D 570</td>
</tr>
</tbody>
</table>

(1) Publicly sourced data  
(2) Injection molded sample  
(3) Resin data  

Resin specification:  
ASTM D6778-06 POM0111 superseding ASTM D4181-00 POM111  
Shapes specification:  
ASTM D6100-11 S-POM0111  

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