**PLEXIGLAS® V920**

**ACRYLIC RESIN**

**Typical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Units</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Flow Rate (230°C/3.8 kg)</td>
<td>8.0</td>
<td>g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.19</td>
<td>–</td>
<td>ASTM D792</td>
</tr>
<tr>
<td>Mold Shrinkage</td>
<td>0.2 - 0.6</td>
<td>%</td>
<td>ASTM D955</td>
</tr>
<tr>
<td>Water Absorption (24 hr immersion)</td>
<td>0.3</td>
<td>% weight gain</td>
<td>ASTM D570</td>
</tr>
</tbody>
</table>

**Physical**

**Mechanical**

- Tensile Strength @ Maximum: 10,000 psi (ASTM D638)
- Tensile Elongation @ Break: 5% (ASTM D638)
- Tensile Modulus: 450,000 psi (ASTM D638)
- Flexural Strength @ Maximum: 15,000 psi (ASTM D790)
- Flexural Modulus: 450,000 psi (ASTM D790)
- Notched Izod Impact (73°F): 0.3 ft-lb/in notch (ASTM D256)
- Rockwell Hardness: 90 M-scale (ASTM D785)

**Thermal**

- HDT (0.455 MPa; annealed): 199 °F (ASTM D648)
- HDT (1.82 MPa; annealed): 195 °F (ASTM D648)
- Vicat Softening Point (50°C/hr; 10N): 212 °F (ASTM D1525)
- Vicat Softening Point (50°C/hr; 50N): 196 °F (ASTM D1525)
- Thermal Conductivity: 1.3 BTU/hr*ft2*F/in (ASTM C177)

**Optical**

- Refractive Index (Nd @ 72°F): 1.49 (ASTM D542)
- Luminous Transmittance (0.125 in/3.2 mm): 92% (ASTM D1003)
- Haze (0.125 in/3.2 mm): <1% (ASTM D1003)

**Classification**

- ASTM Classification: PMMA 0121V4 (ASTM D788)

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