DOW DMADA-8904 NT 7

High Density Polyethylene Resin

- Injection molding
- For injection molded pails, industrial parts and other shipping containers
- Excellent impact strength, stress crack resistance and processability
- Very narrow molecular weight distribution
- Complies with U.S. FDA 21 CFR 177.1520 (c)3.1a
  Consult the regulations for complete details.

DOW DMADA-8904 NT 7 High Density Polyethylene (HDPE) Resin is produced via UNIPOL™ Process Technology from Dow and is intended for use in injection molding applications such as pails, industrial parts and other shipping containers. This resin has been designed to provide excellent processability for molders and to meet the rigorous performance characteristics of applications requiring stackability, environmental stress crack resistance and impact strength.

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th>Test Method</th>
<th>Values(1)</th>
<th>English (SI)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Resin Properties</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melt Index (I2) @190°C/2.16 kg, g/10 min</td>
<td>ASTM D 1238</td>
<td>4.4</td>
<td></td>
</tr>
<tr>
<td>Density, g/cm³</td>
<td>ASTM D 792</td>
<td>0.952</td>
<td></td>
</tr>
<tr>
<td>DSC Melting Point, °F (°C)</td>
<td>Dow Method</td>
<td>268 (131)</td>
<td></td>
</tr>
<tr>
<td>DSC Crystallization Point, °F (°C)</td>
<td>Dow Method</td>
<td>246 (119)</td>
<td></td>
</tr>
<tr>
<td>Vicat Softening Point, °F (°C)</td>
<td>ASTM D 1525</td>
<td>264 (129)</td>
<td></td>
</tr>
<tr>
<td><strong>Molded Plaque Properties</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hardness, Shore D</td>
<td>ASTM D 2240</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>Flexural Modulus, 2% Secant, psi (MPa)</td>
<td>ASTM D 790 B</td>
<td>160,000 (1103)</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength at Break, psi (MPa)</td>
<td>ASTM D 638</td>
<td>4500 (31)</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength at Yield, psi (MPa)</td>
<td>ASTM D 638</td>
<td>3900 (27)</td>
<td></td>
</tr>
<tr>
<td>Tensile Elongation at Break, %</td>
<td>ASTM D 638</td>
<td>1200</td>
<td></td>
</tr>
<tr>
<td>Tensile Elongation at Yield, %</td>
<td>ASTM D 638</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Tensile Impact Strength, ft-lb/in. &quot; (kJ/m²)</td>
<td>ASTM D 1822, Type S</td>
<td>40 (84)</td>
<td></td>
</tr>
<tr>
<td>Environmental Stress Crack Resistance, 122°F (50°C), Fsb, 100% Igepal®, hrs.</td>
<td>ASTM D 1693</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Brittleness Temperature, °F (°C)</td>
<td>ASTM D 746</td>
<td>&lt;-105 (&lt;-76)</td>
<td></td>
</tr>
<tr>
<td>Deflection Temperature Under Load @ 66 psi (0.45 MPa), °F (°C)</td>
<td>ASTM D 648</td>
<td>162 (72)</td>
<td></td>
</tr>
</tbody>
</table>

(1) Typical values, not to be construed as specifications. Users should confirm results by their own tests.
(2) Molded and tested in accordance with ASTM D4976.
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