Technical Data Sheet

**Lupolen 4261AG**

High Density Polyethylene

**Product Description**

*Lupolen* 4261AG is a high molecular weight high density polyethylene. Typical customer applications include automotive fuel tanks. It is supplied in pellets and is stabilized with antioxidants for the extrusion process. The product features an outstanding Environmental Stress Cracking Resistance (ESCR), good chemical resistance in combination with an excellent low temperature impact resistance. Typical processes include blow molding and thermoforming.

*Lupolen* 4261AG is not intended for use in medical and pharmaceutical applications. The product can not be used for food contact applications.

**Regulatory Status**

For regulatory compliance information, see *Lupolen* 4261AG Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

<table>
<thead>
<tr>
<th><strong>Status</strong></th>
<th>Commercial: Active</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Availability</strong></td>
<td>Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South &amp; Central America</td>
</tr>
<tr>
<td><strong>Application</strong></td>
<td>Fuel Tanks; Non-fuel Reservoirs</td>
</tr>
<tr>
<td><strong>Market</strong></td>
<td>Automotive</td>
</tr>
<tr>
<td><strong>Processing Method</strong></td>
<td>Extrusion Blow Molding; Thermoforming</td>
</tr>
<tr>
<td><strong>Attribute</strong></td>
<td>Antioxidant; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance</td>
</tr>
</tbody>
</table>

### Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melt Flow Rate, (190 °C/21.6 kg)</td>
<td>6.0</td>
<td>g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Density, (23 °C)</td>
<td>0.945</td>
<td>g/cm³</td>
<td>ASTM D1505</td>
</tr>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>1070</td>
<td>MPa</td>
<td>ASTM D790</td>
</tr>
<tr>
<td>Tensile Strength at Yield, (50 mm/min)</td>
<td>23.1</td>
<td>MPa</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Type IV bar die cut or machined</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Elongation at Break, (50 mm/min)</td>
<td>600</td>
<td>%</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Type IV bar die cut or machined</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Stress Crack Resistance, Fₜ₀ (100% Igepal®, Cond A)</td>
<td>&gt;2000</td>
<td>hr</td>
<td>ASTM D1693</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Processing Parameters</strong></th>
<th>Nominal Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Temperature</td>
<td>180 - 240</td>
<td>°C</td>
</tr>
</tbody>
</table>
Notes
These are typical property values not to be construed as specification limits.

Processing Techniques
Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information
For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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