Alathon
L5332CP
High Density Polyethylene Blow Molding Grade
Melt Index 0.32  Density 0.953

Applications

Alathon L5332CP is bimodal molecular weight distribution, fractional melt index HDPE resin that exhibits an exceptional balance of environmental stress crack resistance and stiffness. Typical applications include blow molded containers for packaging household and agricultural chemicals, particularly those that are strong stress crack-inducing reagents.

Regulatory Status

L5332CP meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food..." Specific limitations or conditions of use may apply. Contact your Equistar product safety representative for more information.

Processing Techniques

Specific recommendations for processing L5332CP can only be made when the processing conditions, equipment and end use are known.

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value</th>
<th>Units</th>
<th>ASTM Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Index</td>
<td>0.32</td>
<td>g/10 min</td>
<td>D1238</td>
</tr>
<tr>
<td>Density</td>
<td>0.953</td>
<td>g/cc</td>
<td>D1505</td>
</tr>
<tr>
<td>Tensile Strength @ Yield</td>
<td>4000</td>
<td>psi</td>
<td>D638</td>
</tr>
<tr>
<td>Elongation @ Yield</td>
<td>8</td>
<td>%</td>
<td>D638</td>
</tr>
<tr>
<td>Elongation @ Break</td>
<td>&gt;800</td>
<td>%</td>
<td>D638</td>
</tr>
<tr>
<td>Flexural Modulus (2% Secant)</td>
<td>160,000</td>
<td>psi</td>
<td>D790</td>
</tr>
<tr>
<td>Tensile Impact</td>
<td>190</td>
<td>ft-lb/in.</td>
<td>D1822</td>
</tr>
<tr>
<td>Heat Deflection Temperature @ 66 psi</td>
<td>69</td>
<td>°C</td>
<td>D648</td>
</tr>
<tr>
<td>Vicat Softening Point</td>
<td>127</td>
<td>°C</td>
<td>D1525</td>
</tr>
<tr>
<td>Hardness, Shore D</td>
<td>66</td>
<td></td>
<td>D2240</td>
</tr>
<tr>
<td>Bent Strip ESCR, 100% Igepal</td>
<td>450</td>
<td>hours</td>
<td>D1693</td>
</tr>
</tbody>
</table>

These are typical values not to be construed as specification limits.

LyondellBasell markets this product through the following entities:

Equistar Chemicals, LP
Basell Sales & Marketing Company B.V.
Basell Asia Pacific Limited
Basell International Trading FZE
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Users should review the applicable Material Safety Data Sheet before handling the product.

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