Product Description

*Microthene* MP635962 is a high flow hexene LLDPE powder selected by customers for the rotational molding of large hollow objects, including toys, playground equipment, drums and agricultural and chemical storage containers. MP635962 exhibits high ESCR, low temperature impact strength and warp resistance. MP635962 is a UV-stabilized, 35-mesh powder and is also available in pellet form as *Petrothene* GA635962.

Regulatory Status

For regulatory compliance information, see *Microthene* MP635962 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status

Commercial

Availability

North America

Application

Containers; Drums; Sports, Leisure & Toys

Market

Rigid Packaging

Processing Method

Rotomolding

Typical Properties

<table>
<thead>
<tr>
<th>Nominal Value</th>
<th>English Units</th>
<th>Nominal Value</th>
<th>SI Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Flow Rate, (190 °C/2.16 kg)</td>
<td>6.7 g/10 min</td>
<td>6.7 g/10 min</td>
<td>ASTM D1238</td>
<td></td>
</tr>
<tr>
<td>Density, (23 °C)</td>
<td>0.935 g/cm³</td>
<td>0.935 g/cm³</td>
<td>ASTM D1505</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical

Flexural Modulus

| (1% Secant) | 107000 psi | 740 MPa | ASTM D790 |
| (2% Secant) | 91000 psi | 625 MPa | ASTM D790 |

Tensile Strength at Yield

| 2700 psi | 18.6 MPa | ASTM D638 |

Environmental Stress Crack Resistance, Fso (100% Igepal®, Cond A)

| >1000 hr | >1000 hr | ASTM D1693 |

Impact

Low Temperature Impact

| 1/8" specimen @ -40 °F | 40 ft-lbs | 55 J | ARM |
| 1/4" specimen @ -40 °F | 145 ft-lbs | 195 J | ARM |

Thermal

Deflection Temperature Under Load

| 135 °F | 57 °C | ASTM D648 |
| 102 °F | 39 °C | ASTM D648 |
Notes

Tensile properties were run with a crosshead speed of 2 inches/min or 50 mm/min.

Igepal® is a registered trademark of Rhodia.

Low Temperature Impact testing was performed according to the Association of Rotational Molders (ARM) International Test Protocol.

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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