

### Technical Data Sheet



### Microthene MP625060

Linear Low Density Polyethylene

#### Product Description

Microthene MP625060 is a hexene LLDPE rotational molding powder with excellent flow properties selected by customers to produce a variety of objects such as toys, playground equipment, drums and agricultural and chemical storage containers. MP625060 exhibits high ESCR, low temperature impact strength and warp resistance. MP625060 is a 35-mesh powder with UV20+ UV resistance and is also available in pellet form as Petrothene GA625060.

#### Regulatory Status

For regulatory compliance information, see Microthene MP625060 [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                                                               | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|----------------------------------------------------------------------------------|---------------|---------------|---------------|----------|-------------|
| <b>Physical</b>                                                                  |               |               |               |          |             |
| Melt Flow Rate, (190 °C/2.16 kg)                                                 | 5.0           | g/10 min      | 5.0           | g/10 min | ASTM D1238  |
| Density, (23 °C)                                                                 | 0.935         | g/cm³         | 0.935         | g/cm³    | ASTM D1505  |
| <b>Mechanical</b>                                                                |               |               |               |          |             |
| Flexural Modulus                                                                 |               |               |               |          |             |
| (1% Secant)                                                                      | 105000        | psi           | 725           | 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, F <sub>50</sub><br>(100% Igepal®, Cond A) | >1000         | hr            | >1000         | hr       | ASTM D1693  |
| <b>Impact</b>                                                                    |               |               |               |          |             |
| Low Temperature Impact                                                           |               |               |               |          |             |
| 1/8" specimen @ -40 °F                                                           | 55            | ft-lbs        | 75            | J        | ARM         |
| 1/4" specimen @ -40 °F                                                           | 155           | ft-lbs        | 210           | J        | ARM         |
| <b>Thermal</b>                                                                   |               |               |               |          |             |
| Deflection Temperature Under Load                                                |               |               |               |          |             |
| (66 psi, Unannealed)                                                             | 131           | °F            | 55            | °C       | ASTM D648   |
| (264 psi, Unannealed)                                                            | 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/>.

© LyondellBasell Industries Holdings, B.V. 2026

### Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

### Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.

