

Technical Data Sheet



Petrothene GA635060

Linear Low Density Polyethylene

Product Description

Petrothene GA635060 is a high flow hexene LLDPE resin selected by customers for the rotational molding of large hollow objects, including toys, playground equipment, drums and agricultural and chemical storage containers. GA635060 exhibits high ESCR, low temperature impact strength and warp resistance. GA635060 has a UV20+ UV resistance and is available in a 35-mesh powder as *Microthene* MP635060.

Regulatory Status

For regulatory compliance information, see Petrothene GA635060 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Containers; Drums; Sports, Leisure & Toys
Market	Outdoor Equipment; Rigid Packaging
Processing Method	Rotomolding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	6.7	g/10 min	6.7	g/10 min	ASTM D1238
Density, (23 °C)	0.935	g/cm ³	0.935	g/cm ³	ASTM D1505
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, F ₅₀ (100% Igepal®, Cond A)	>1000	hr	>1000	hr	ASTM D1693
Impact					
Low Temperature Impact					
1/8" specimen @ -40 °F	51	ft-lbs	69	J	ARM
1/4" specimen @ -40 °F	145	ft-lbs	195	J	ARM
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	135	°F	57	°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.

