Technical Data Sheet

Petrothene GA635962

Linear Low Density Polyethylene

Product Description

Petrothene GA635962 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. GA635962 exhibits high ESCR, low temperature impact strength and warp resistance. GA635962 is UV-stabilized and available in a 35-mesh powder as *Microthene* MP635962.

Regulatory Status

For regulatory compliance information, see *Petrothene* GA635962 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/cm³	0.935	g/cm³	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/.

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