Technical Data Sheet

Petrothene GA652962

High Density Polyethylene

Product Description

Petrothene GA652962 is a hexene HDPE resin selected by customers for rotationally molding large tank applications. GA652962 is UV-stabilized and is available in a 35 mesh powder as *Microthene* MP652962.

Regulatory Status

For regulatory compliance information, see *Petrothene* GA652962 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Containers; Intermediate Bulk Containers; Tanks, Industrial
Market	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)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Density, (23 °C)	0.942	g/cm³	0.942	g/cm³	ASTM D1505
Mechanical					
Flexural Modulus					
(1% Secant)	147000	psi	1010	MPa	ASTM D790
(2% Secant)	124000	psi	855	MPa	ASTM D790
Tensile Strength at Yield	3400	psi	23.4	MPa	ASTM D638
Environmental Stress Crack Resistance					
F_{50} (10% Igepal®, Cond A)	50	hr	50	hr	ASTM D1693
F_{50} (100% Igepal®, Cond A)	400	hr	400	hr	ASTM D1693
Impact					
Low Temperature Impact					
1/8" specimen @ -40 °F	57	ft-lbs	77	J	ARM
1/4" specimen @ -40 °F	160	ft-lbs	215	J	ARM
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	149	°F	65	°C	ASTM D648
(264 psi, Unannealed)	109	°F	43	°C	ASTM D648

Manufacturer website: https://www.lyondellbasell.com/en/

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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