

Petrothene

LR734045

High Density Polyethylene

Blow Molding Grade

Melt Index 0.38 Density 0.953

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Applications

Petrothene LR734045 is a high density polyethylene resin that exhibits good stiffness and environmental stress crack resistance. This product contains stearate as a core rod release for the injection-blow molding process. Typical applications include bottles for household chemicals, food products, and personal care products.

Regulatory Status

LR734045 meets the requirements of the Food and Drug Administration regulation, 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar Product Safety representative for more information.

Processing Techniques

Specific recommendations for processing LR734045 can only be made when the processing conditions, equipment and end use are known.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	0.38	g/10 min	D1238
Density	0.953	g/cc	D1505
Tensile Strength @ Yield	4,000	psi	D638
Elongation @ Break	>500	%	D638
Flexural Modulus	176,000	psi	D790
Tensile Impact	131	ft-lb/in.	D1822
Low Temperature Brittleness, F ₅₀	<-76	°C	D746
Heat Deflection Temperature @ 66 psi	75	°C	D648
Vicat Softening Point	127	°C	D1525
Hardness, Shore D	67		D2240
Environmental Stress Crack Resistance, F ₅₀	25	hrs	D1693 ¹
	>500	hrs	D2561

¹ 100% Igepal® CO-630, 50°C.

® Igepal is a registered trademark of Rhône-Poulenc Co., Inc.

These are typical values not to be construed as specification limits.

See page 2 for additional information.

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LyondellBasell markets this product through the following entities:

Equistar Chemicals, LP
Basell Sales & Marketing Company B.V.
Basell Asia Pacific Limited
Basell International Trading FZE
LyondellBasell Australia Pty Ltd

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This product(s) may not be used in:

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(ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: U.S. FDA Class II Medical Devices; Health Canada Class II or Class III Medical Devices; European Union Class II Medical Devices; film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices; packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; and tobacco related products and applications. Additionally, the product(s) may not be used in: (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices; (ii) applications involving permanent implantation into the body; (iii) life-sustaining medical applications; and (iv) lead, asbestos or MTBE related applications. All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Users should review the applicable Material Safety Data Sheet before handling the product.

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