

Petrothene

LR734001

High Density Polyethylene

Blow Molding Grade

Melt Index: 0.38 Density: 0.953



Applications

Petrothene LR734001 is a high density polyethylene resin that exhibits good stiffness and environmental stress crack resistance. Typical applications include bottles for household chemicals, food products, and personal care products.

Regulatory Status

Petrothene LR734001 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 sales representative for more information about the use of specific products for specific application.

Processing Techniques

While specific recommendations for processing LR734001 can only be made when the processing conditions, equipment and end use are known, typical stock temperatures range from 340 to 410°F. For further suggestions, please contact your Equistar sales representative.

Typical Properties

Property	Nominal Value	Units	ASTM Test
Melt Index	0.38	g/10 min	D 1238
Density	0.953	g/cc	D 1505
Tensile Strength @ Yield	4,000	psi	D 638
Elongation @ Break	>500	%	D 638
Flexural Modulus	176,000	psi	D 790
Tensile Impact	131	ft-lb/in.	D 1822
Low Temperature Brittleness, F ₅₀	<-76	°C	D 746
Heat Deflection Temperature @ 66 psi	75	°C	D 648
Vicat Softening Point	127	°C	D 1525
Hardness, Shore D	67		D 2240
Environmental Stress Crack Resistance, F ₅₀	25	hrs	D 1693 ¹
	>500	hrs	D 2561

¹ 100% Igepal® CO-630, 50°C

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

Equistar Chemicals, LP
1221 McKinney, Suite 700
P. O. Box 2583
Houston, Texas 77252-2583
(888) 777-0232
www.lyondellbasell.com