

Petrothene

# LR734045

High Density Polyethylene

Blow Molding Grade

Melt Index 0.38      Density 0.953



## 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 <sub>50</sub>	<-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 <sub>50</sub>	25	hrs	D1693 <sup>1</sup>
	>500	hrs	D2561

<sup>1</sup> 100% Igepal® CO-630, 50°C.

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

See page 2 for additional information.