

# LB500301

High Density Polyethylene

Blow Molding Grade

Melt Index 0.30      Density 0.949

## Applications

PETROTHENE LB500301 is a polyethylene resin that exhibits excellent environmental stress crack resistance and is especially designed for heavy duty bottles, such as those containing detergent and chemicals.

## Regulatory Status

LB500301 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

Specific recommendations for processing LB500301 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales representative.

## Typical Properties

Property Method	Nominal Value	Units	ASTM Test
Melt Index	0.30	g/10 min	D 1238
Density	0.949	g/cc	D 1505
Tensile Strength @ Yield	3,800	psi	D 638
Elongation @ Break	>600	%	D 638
Flexural Modulus	170,000	psi	D 790
Tensile Impact	120	ft-lb/in	D 1822
Low Temperature Brittleness, F <sub>50</sub>	<-76	°C	D 746
Heat Deflection Temperature @ 66 psi	72	°C	D 648
Vicat Softening Point	122	°C	D 1525
Hardness, Shore D	65		D 2240
Environmental Stress Crack Resistance, F <sub>50</sub>	75	hrs	D 1693 <sup>1</sup>
	>500	hrs	D 2561

<sup>1</sup> Condition B, 100% Igepal® CO-630

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