

## LyondellBasell Petrothene<sup>®</sup> LB500301 High Density Polyethylene, Blow Molding Grade

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

### Material Notes:

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 1 77.1 520. 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 applications. 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. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-LB500301-High-Density-Polyethylene-Blow-Molding-Grade.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-LB500301-High-Density-Polyethylene-Blow-Molding-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in <sup>3</sup>	ASTM D1505
ESCR 100% Igepal <sup>®</sup>	75 hour	75 hour	F<SUB>50</SUB>; CO-630; ASTM D1693
	>= 500 hour	>= 500 hour	F<SUB>50</SUB>; ASTM D2561
Melt Flow	0.30 g/10 min	0.30 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	26.2 MPa	3800 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Modulus	1.17 GPa	170 ksi	ASTM D790
Tensile Impact	64.1 J/cm	120 ft-lb/in	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.0 Â°C	162 Â°F	ASTM D648
Vicat Softening Point	122 Â°C	252 Â°F	ASTM D1525
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	ASTM D746

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