

LyondellBasell Petrothene[®] LB560401 High Density Polyethylene

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

Material Notes:

ApplicationsPetrothene LB560401 exhibits good stiffness and environmental stress crack resistance. Typical applications include household chemical and personal care product bottles.**Regulatory Status**LB560401 meets the requirements of the Food and Drug Administration, regulation 21 CFR 1 77.1 520.**Processing Techniques**Specific recommendations for processing LB560401 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales representative.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-LB560401-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 500 hour	>= 500 hour	ASTM D2561
ESCR 100% Igepal [®]	25 hour	25 hour	ASTM D1693
Melt Flow	0.35 g/10 min	0.35 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength at Break	26.9 MPa	3900 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Modulus	1.24 GPa	180 ksi	ASTM D790
Tensile Impact	61.4 J/cm	115 ft-lb/in	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	73.9 Â°C	165 Â°F	ASTM D648
Vicat Softening Point	123 Â°C	253 Â°F	ASTM D1525
Brittleness Temperature	<= -76.1 Â°C	<= -105 Â°F	F ₅₀ ; ASTM D746

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

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