

LyondellBasell Petrothene® LM600500 High Density Polyethylene

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

Material Notes:

Applications PETROTHENE LM 6005-00 resin is especially designed for water, milk, and juice bottles. It exhibits excellent rigidity and good processability. Regulatory Status LM 6005-00 meets the requirements of 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. Processing Techniques Specific recommendations for processing LM 6005-00 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please 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-LM600500-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	>= 0.960 g/cc	>= 0.0347 lb/in ³	ASTM D1505
Melt Flow	0.35 g/10 min	0.35 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength at Break	30.3 MPa	4400 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Modulus	1.52 GPa	220 ksi	ASTM D790
Tensile Impact	53.4 J/cm	100 ft-lb/in	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	78.0 Â°C	172 Â°F	ASTM D648
Vicat Softening Point	125 Â°C	257 Â°F	ASTM D1525
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	F ₅₀ ; ASTM D746

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