

LyondellBasell Petrothene® LT570401 High Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE LT 5704-01 resin exhibits good stiffness and environment stress crack resistance. Typical applications are bleach and household chemical bottles.**Regulatory Status**LT 5704-01 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 LT 5704-01 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-LT570401-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	200 hour	200 hour	ASTM D1693
	>= 1000 hour	>= 1000 hour	ASTM D2561
Melt Flow	21 g/10 min	21 g/10 min	High load, I-20; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ASTM D2240
Tensile Strength, Yield	26.2 MPa	3800 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Modulus	1.00 GPa	145 ksi	ASTM D790
Tensile Impact	66.2 J/cm	124 ft-lb/in	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	74.0 Â°C	165 Â°F	ASTM D648
Vicat Softening Point	126 Â°C	259 Â°F	ASTM D1525
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	F ₅₀ ; ASTM D746

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