

LyondellBasell Alathon® L5040TC High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

Material Notes:

ApplicationsALATHON L 5040TC is a bimodal high density polyethylene copolymer natural resin designed for telecommunications conduits. L 5040TC offers an excellent balance of stiffness, toughness and ease of processing. This resin is ideal for conduit used with fiber optic cable, electrical cable and telecommunications cable.**Regulatory Status**L 5040TC meets the requirements of D 3350 cell classification 335440A. Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information.**Processing Techniques**Specific recommendations for processing L 5040TC can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.**Cell Classification** 335440A, ASTM D3350.This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-L5040TC-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	F ₅₀ ; ASTM D1693
Melt Flow	0.40 g/10 min	0.40 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ASTM D2240
Tensile Strength, Yield	23.4 MPa	3400 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Modulus	1.10 GPa	160 ksi	ASTM D790
Tensile Impact	100 J/cm	188 ft-lb/in	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.0 Å°C	169 Å°F	ASTM D648
Vicat Softening Point	128 Å°C	262 Å°F	ASTM D1525
Brittleness Temperature	<= -75.0 Å°C	<= -103 Å°F	F ₅₀ ; ASTM D746

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