

LyondellBasell Alathon® M5370PX High Density Polyethylene, Extrusion Grade

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

Material Notes:

ALATHON M5370PX is a copolymer with a narrow molecular weight distribution. This resin provides high impact strength and stress crack resistance, excellent color, low odor and good processability. Typical applications include pipe and profile extrusion. Regulatory Status: M5370PX meets the requirements of the 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 or technical service representative for more information. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-M5370PX-High-Density-Polyethylene-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in ³	ASTM D1505
Melt Flow	6.8 g/10 min	6.8 g/10 min	ASTM D1238
Spiral Flow	24.1 cm	9.50 in	Equistar test

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ASTM D2240
Tensile Strength at Break	22.4 MPa	3250 psi	ASTM D638
Tensile Strength, Yield	28.3 MPa	4110 psi	2"/min; ASTM D638
Elongation at Yield	7.3 %	7.3 %	2"/min; ASTM D638
1% Secant Modulus	1250 MPa	181000 psi	0.5"/min; ASTM D790
2% Secant Modulus	1.04 GPa	151 ksi	ASTM D790

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	127 Â°C	261 Â°F	ASTM D1525
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	ASTM D746

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