

LyondellBasell Alathon® M5040 High Density Polyethylene

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

Material Notes:

ApplicationsALATHON M 5040 is a copolymer with broad molecular weight distribution. This resin exhibits excellent color, low odor, and good processing stability. Typical applications for this resin are specialty applications with high ESCR and applications requiring a balance of ESCR, impact and processability
Regulatory StatusM 5040 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 TechniquesSpecific recommendations for processing M 5040 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-Alathon-M5040-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D1505
Melt Flow	4.0 g/10 min	4.0 g/10 min	ASTM D1238
Spiral Flow	31.5 cm	12.4 in	Measures the number on inches of flow produced when molten resin is injected into a long, spiral channel (0.625" insert), at a constant injection pressure of 1000 psi with a melt temperature of 440° F; Equistar

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength at Break	22.3 MPa	3240 psi	ASTM D638
Tensile Strength, Yield	28.7 MPa	4160 psi	Crosshead speed - 2"min.; ASTM D638
Elongation at Yield	8.1 %	8.1 %	Crosshead speed - 2"min.; ASTM D638
1% Secant Modulus	1258 MPa	182500 psi	Crosshead speed - 0.5" min; ASTM D790
2% Secant Modulus	1.044 GPa	151.4 ksi	Crosshead speed - 0.5" min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	61.0 °C	142 °F	ASTM D648
Vicat Softening Point	123 °C	253 °F	ASTM D1525

Brittleness Temperature
Thermal Properties

≤ -76.0 °C
Metric

≤ -105 °F
English

F₅₀; ASTM D746
Comments

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