

LyondellBasell Alathon® M6580 High Density Polyethylene

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

Material Notes:

ApplicationsALATHON M 6580 is a narrow molecular weight distribution homopolymer that enhances processability and stiffness, exhibits excellent color, low odor and good processing stability. Typical applications include cases, crates, trays, tote bins, ATV parts and open-head pails.
Regulatory StatusM 6580 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 6580 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-M6580-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.965 g/cc	0.0349 lb/in ³	ASTM D1505
Melt Flow	7.7 g/10 min	7.7 g/10 min	ASTM D1238
Spiral Flow	26.7 cm	10.5 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	65	65	ASTM D2240
Tensile Strength at Break	15.33 MPa	2223 psi	ASTM D638
Tensile Strength, Yield	28.3 MPa	4110 psi	Crosshead speed - 2"min.; ASTM D638
Elongation at Yield	7.3 %	7.3 %	Crosshead speed - 2"min.; ASTM D638
1% Secant Modulus	1540 MPa	224000 psi	Crosshead speed - 0.5" min; ASTM D790
2% Secant Modulus	1.29 GPa	187 ksi	Crosshead speed - 0.5" min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ASTM D648
Vicat Softening Point	131 °C	268 °F	ASTM D1525

Brittleness Temperature	$\leq -76.0\text{ }^{\circ}\text{C}$	$\leq -105\text{ }^{\circ}\text{F}$	F₅₀;ASTM D746
Thermal Properties	Metric	English	Comments

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