

LyondellBasell Alathon® M6028 High Density Polyethylene

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

Material Notes:

Applications M 6028 is a homopolymer that is warp resistant, exhibits excellent toughness, stiffness and color as well as low odor and good processing stability. Typical applications include safety equipment (hard hats), hardware items and heavy wall moldings. **Regulatory Status** M 6028 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 M 6028 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-M6028-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in ³	ASTM D1505
Melt Flow	2.8 g/10 min	2.8 g/10 min	ASTM D1238
Spiral Flow	15.5 cm	6.10 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	67	67	ASTM D2240
Tensile Strength at Break	25.0 MPa	3630 psi	ASTM D638
Tensile Strength, Yield	30.1 MPa	4360 psi	Crosshead speed - 2"min.; ASTM D638
Elongation at Yield	7.9 %	7.9 %	Crosshead speed - 2"min.; ASTM D638
1% Secant Modulus	1370 MPa	198000 psi	Crosshead speed - 0.5" min; ASTM D790
2% Secant Modulus	1.12 GPa	162 ksi	Crosshead speed - 0.5" min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	71.0 Â°C	160 Â°F	ASTM D648
Vicat Softening Point	126 Â°C	259 Â°F	ASTM D1525

Brittleness Temperature	$\leq -76.0\text{ }^{\circ}\text{C}$	$\leq -105\text{ }^{\circ}\text{F}$	≤ -50 ;ASTM D746
Thermal Properties	Metric	English	Comments

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