

LyondellBasell Alathon® M6138 High Density Polyethylene

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

Material Notes:

ApplicationsALATHON M 6138, formerly known as XM 6138, is a high density polyethylene resin for use in injection molding applications. This resin exhibits good impact resistance and high stiffness. Typical applications include agricultural bins, crates, trays and consumer durable goods.**Regulatory Status**M 6138 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 6138 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-M6138-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.961 g/cc	0.0347 lb/in ³	ASTM D1505
Melt Flow	3.8 g/10 min	3.8 g/10 min	ASTM D1238
Spiral Flow	20.8 cm	8.20 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	69	69	ASTM D2240
Tensile Strength at Break	26.5 MPa	3850 psi	Crosshead speed - 2"min.; ASTM D638
Tensile Strength, Yield	30.8 MPa	4460 psi	Crosshead speed - 2"min.; ASTM D638
Elongation at Yield	7.7 %	7.7 %	ASTM D638
1% Secant Modulus	1520 MPa	220000 psi	Crosshead speed - 0.5" min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.0 Â°C	169 Â°F	ASTM D648
Vicat Softening Point	126 Â°C	259 Â°F	ASTM D1525
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	F₅₀; ASTM D746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	232 Â°C	450 Â°F	
Middle Barrel Temperature	232 Â°C	450 Â°F	
Front Barrel Temperature	232 Â°C	450 Â°F	
Nozzle Temperature	246 Â°C	475 Â°F	

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