

LyondellBasell Alathon® M4661 High Density Polyethylene

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

Material Notes:

ApplicationsALATHON M 4661, formerly known as LYHD 060, exhibits excellent impact, warp and environmental stress crack resistance. Typical applications are closures, institutional seating and consumer durables. Through precise control of the molecular weight distribution M 4661 shows enhanced processability for a product with this melt index. **Regulatory Status**M 4661 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 polyethylene sales representative for more information. **Processing Techniques**Specific recommendations for processing M 4661 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-M4661-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.946 g/cc	0.0342 lb/in ³	ASTM D1505
Melt Flow	6.1 g/10 min	6.1 g/10 min	ASTM D1238
Spiral Flow	24.4 cm	9.60 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	68	68	ASTM D2240
Tensile Strength at Break	15.2 MPa	2200 psi	Crosshead speed - 2" min; ASTM D638
Tensile Strength, Yield	22.8 MPa	3310 psi	Crosshead speed - 2" min; ASTM D638
Elongation at Yield	12 %	12 %	ASTM D638
1% Secant Modulus	896 MPa	130000 psi	Crosshead speed - 0.5" min; ASTM D790
2% Secant Modulus	0.758 GPa	110 ksi	Crosshead speed - 0.5" min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	60.0 °C	140 °F	ASTM D648
Vicat Softening Point	124 °C	255 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
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