

LyondellBasell Alathon® M6020 High Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

Material Notes:

ApplicationsALATHON 6020 is a medium molecular high density weight homopolymer for use in blown or cast film applications. This resin provides extremely low gel content and high stiffness. Typical applications include dry food packaging, overwrap, and WVTRRegulatory StatusM 6020 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 6020 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative. **Typical Extrusion Conditions**2.0 Mil Film; Melt Temperature- 390-410°F(199-210°C)This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-M6020-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	2.0 g/10 min	2.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	22.8 MPa	3300 psi	ASTM D822
Film Tensile Strength at Yield, TD	21.4 MPa	3100 psi	ASTM D822
Film Elongation at Break, MD	860 %	860 %	ASTM D822
Film Elongation at Break, TD	850 %	850 %	ASTM D822
Elmendorf Tear Strength MD	22 g	22 g	ASTM D1922
Elmendorf Tear Strength TD	500 g	500 g	ASTM D1922
1% Secant Modulus, MD	827 MPa	120000 psi	ASTM D822
1% Secant Modulus, TD	1070 MPa	155000 psi	ASTM D822

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 210 °C	390 - 410 °F	Typical Extrusion

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