

LyondellBasell Alathon® H6012 High Density Polyethylene, MMW Film Grade

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

Material Notes:

ALATHON H6012 is medium molecular weight high density polyethylene homopolymer for use in cast film applications. Typical applications for this resin include extrusion coating, blends with LDPE and laminations. Regulatory Status: H6012 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 sales representative for further information regarding the suitability of specific products for specific applications. Specific recommendations for processing H6012 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-H6012-High-Density-Polyethylene-MMW-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM D1505
Thickness	25.4 microns	1.00 mil	
Melt Flow	12 g/10 min	12 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	25.5 MPa	3700 psi	ASTM D882
Film Tensile Strength at Yield, TD	31.7 MPa	4600 psi	ASTM D882
Film Elongation at Break, MD	850 %	850 %	ASTM D882
Film Elongation at Break, TD	350 %	350 %	ASTM D882
Secant Modulus, MD	0.932 GPa	135 ksi	ASTM D882
Secant Modulus, TD	1.07 GPa	155 ksi	ASTM D882

Processing Properties	Metric	English	Comments
Processing Temperature	60.0 Â°C	140 Â°F	Chill Roll
Melt Temperature	177 Â°C	350 Â°F	

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