

LyondellBasell Alathon[®] L5906 High Density Polyethylene

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

Material Notes:

ApplicationsALATHON XL 5906 is a high molecular weight high density polyethylene homopolymer with a broad bimodal molecular weight distribution. This resin exhibits excellent stiffness, very high tensile strength, and low gels. Opportunities for this type of product include paper replacement applications as well as mono-and multi-layer films requiring both stiffness and toughness.**Regulatory Status**XL 5906meets 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 XL 5906 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**BUR=4:1, Neck Height= 6 Die Diameters, 0.5 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-L5906-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.959 g/cc	0.0346 lb/in ³	ASTM D792
Melt Flow	0.057 g/10 min	0.057 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	38.6 MPa	5600 psi	ASTM D822
Film Tensile Strength at Yield, TD	33.1 MPa	4800 psi	ASTM D822
Film Elongation at Break, MD	300 %	300 %	ASTM D822
Film Elongation at Break, TD	350 %	350 %	ASTM D822
Dart Drop, Total Energy	2.44 J	1.80 ft-lb	ASTM D3420
Elmendorf Tear Strength MD	10 g	10 g	ASTM D1922
Elmendorf Tear Strength TD	34 g	34 g	ASTM D1922
Film Tensile Strength at Break, MD	84.8 MPa	12300 psi	ASTM D822
Film Tensile Strength at Break, TD	64.5 MPa	9360 psi	ASTM D822
1% Secant Modulus, MD	1250 MPa	181000 psi	ASTM D822
1% Secant Modulus, TD	1280 MPa	186000 psi	ASTM D822

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