

LyondellBasell Alathon® L4903 High Density Polyethylene

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

Material Notes:

ApplicationsALATHON L 4903 is a high molecular weight high density copolymer with broad dimodal molecular weight distribution. This resin exhibits excellent machine direction tear in an HMW-HD resin as well as low gel levels. Typical applications include trash liners and products requiring incorporating PCR.**Regulatory Status**L 4903 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 L 4903 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=8 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-L4903-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
Thickness	12.7 microns	0.500 mil	4:1 BUR; Neck Height = 8 Die Diameters
Melt Flow	0.027 g/10 min	0.027 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	41.0 MPa	5940 psi	ASTM D882
Film Tensile Strength at Yield, TD	33.5 MPa	4860 psi	ASTM D882
Film Elongation at Break, MD	390 %	390 %	ASTM D882
Film Elongation at Break, TD	260 %	260 %	ASTM D882
Dart Drop, Total Energy	2.44 J	1.80 ft-lb	ASTM D3420
Elmendorf Tear Strength MD	20 g	20 g	ASTM D1922
Elmendorf Tear Strength TD	18 g	18 g	ASTM D1922
Film Tensile Strength at Break, MD	65.1 MPa	9440 psi	ASTM D882
Film Tensile Strength at Break, TD	66.7 MPa	9680 psi	ASTM D882
1% Secant Modulus, MD	1150 MPa	167000 psi	ASTM D822
1% Secant Modulus, TD	979 MPa	142000 psi	ASTM D822

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

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