

LyondellBasell Alathon® L4434 High Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

ApplicationsALATHON L 4434 is a medium molecular weight high density copolymer for use in blown film applications. Typical applications include blown film over pouches. Regulatory StatusL 4434 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 TechniquesSpecific recommendations for processing L 4434 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-L4434-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in ³	ASTM D792
Water Vapor Transmission	2.90 g/m ² /day	0.187 g/100 in ² /day	ASTM F1249
Thickness	50.8 microns	2.00 mil	Blown Film; 2.5:1 BUR; 60 mil die gap
Melt Flow	0.34 g/10 min	0.34 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	22.1 MPa	3200 psi	ASTM D882
Film Tensile Strength at Yield, TD	27.6 MPa	4000 psi	ASTM D882
Film Elongation at Break, MD	590 %	590 %	ASTM D882
Film Elongation at Break, TD	850 %	850 %	ASTM D882
Secant Modulus, MD	0.679 GPa	98.5 ksi	ASTM E111
Secant Modulus, TD	0.910 GPa	132 ksi	ASTM E111
Elmendorf Tear Strength MD	49 g	49 g	ASTM D1922
Elmendorf Tear Strength TD	1100 g	1100 g	ASTM D1922
Elmendorf Tear Strength, MD	0.965 g/micron	24.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	21.7 g/micron	550 g/mil	ASTM D1922
Film Tensile Strength at Break, MD	51.4 MPa	7450 psi	ASTM D882
Film Tensile Strength at Break, TD	46.2 MPa	6700 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 127.2 °C	<= 261.0 °F	DSC; Lyondell Test
Vicat Softening Point	124.3 °C	255.7 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 232 °C	410 - 450 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China