

Alathon®

L4434

High Density Polyethylene

MMW Film Grade

Melt Index 0.34 Density 0.944

Applications

ALATHON L4434 is a medium molecular weight high density copolymer for use in blown film applications. Typical applications include blown film over pouches.

Regulatory Status

L4434 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 more information.

Processing Techniques

Specific recommendations for processing L4434 can only be made when the processing conditions, equipment and end use application are known. For further suggestions, please contact your Equistar sales representative.

Typical Properties

Property	Nominal Value	Units	Test Method
Melt Index	0.34	g/10 min	ASTM D 1238
Density	0.944	g/cc	ASTM D 792
Melting Point (DSC)	127.2	deg. C	Equistar Method
Vicat Softening Point	124.3	deg. C	ASTM D 1525
Elmendorf Tear Strength, MD (TD)	49 (1100)	g	ASTM D 1922
Tensile Strength @ Yield, MD (TD)	3,200 (4,000)	PSI	ASTM D 882
Tensile Strength @ Break, MD (TD)	7,450 (6,700)	PSI	ASTM D 882
Elongation @ Break, MD (TD)	590 (850)	%	ASTM D 882
Secant Modulus, MD (TD)	98,500 (132,000)	PSI	ASTM E 111
Water Vapor Transmission Rate	2.90	g / (m ² -day-atm)	ASTM F1249

Typical Extrusion Conditions:

2.0 mil Blown Film; 2.5:1 Blow-up-ratio, Melt Temperature 410-450°F (210-232°C), 60 mil die gap

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