Alathon

Typical Properties



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High Density Polyethylene HMW Film Grade Melt Index 0.027 Density 0.949

Applications Alathon L4903 is a high molecular weight high density copolymer with broad bimodal 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 can liners and products requiring incorporation of PCR.

 Regulatory
 L4903 meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1520. This

 Status
 regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food..." Certain limitations or conditions of use may apply. Contact your Equistar product safety representative for more information.

Processing
TechniquesSpecific recommendations for processing L4903 can only be made when the processing conditions,
equipment and end use are known.

Property Melt Index	Nominal	Units g/10 min	ASTM Test Method D1238
	Value 0.027		
Film Properties*			
Dart Drop Impact Strength, F ₅₀	230	g	D1709
Elmendorf Tear Strength, MD (TD)	10 (60)	g	D1922
Tensile Strength @ Yield, MD (TD)	5,400 (4,100)	psi	D882
Tensile Strength @ Break, MD (TD)	11,600 (7,600)	psi	D822
Elongation @ Break, MD (TD)	330 (410)	%	D882
Secant Modulus, MD (TD)	144,000 (148,000)	psi	D882

*Data Obtained Under the Following Extrusion Conditions:

Alpine 200 mm 3 Layer Die (40/35/25); 3 Extruders: 65 mm / 75 mm / 50 mm; Die Gap = 1.5 mm; Film Thickness = 0.5 mil; 500 lbs/ hr; Internal Bubble Cooling; Neck Height = 8 x DD; Blow Up Ratio = 4:1

These are typical values and not to be construed as specifications limits.