

Alathon

L5440

High Density Polyethylene

Blow Molding Grade

Melt Index 0.35 Density 0.954



Applications

Alathon L5440 is designed for high shear machines. It exhibits excellent color, low odor and excellent processing stability. Typical applications include general purpose household chemicals, industrial chemicals, detergent, and motor oil bottles. L5440 containing antistat is available as L5440AS.

Regulatory Status

L5440 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 L5440 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	0.35	g/10 min	D 1238
Density	0.954	g/cm ³	D 1505
Tensile Strength @ Yield	4,100	psi	D 638
Elongation @ Break	>600	%	D 638
Flexural Modulus	178,000	psi	D 790
Tensile Impact	161	ft-lb/in.	D 1822
Low Temperature Brittleness, F ₅₀	<-76	°C	D 746
Heat Deflection Temperature @ 66 psi	76	°C	D 648
Vicat Softening Point	127	°C	D 1525
Hardness, Shore D	67		D 2240
Environmental Stress Crack Resistance, F ₅₀	50	hrs	D 1693 ¹

¹ 100% Igepal® CO-630, 50°C

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