

Alathon

L5440

High Density Polyethylene

Blow Molding Grade

Melt Index 0.35 Density 0.954



Applications

Alathon L5440 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 product safety 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.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	0.35	g/10 min	D1238
Density	0.954	g/cm ³	D1505
Tensile Strength @ Yield	4,100	psi	D638
Elongation @ Break	>600	%	D638
Flexural Modulus	178,000	psi	D790
Tensile Impact	161	ft-lb/in.	D1822
Low Temperature Brittleness, F ₅₀	<-76	°C	D746
Heat Deflection Temperature @ 66 psi	76	°C	D648
Vicat Softening Point	127	°C	D1525
Hardness, Shore D	67		D2240
Environmental Stress Crack Resistance, F ₅₀	50	hrs	D1693 ¹

¹ 100% Igepal® CO-630, 50°C

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These are typical values not to be construed as specification limits.