

Alathon® L5440AS

High Density Polyethylene
LyondellBasell Industries

Message:

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.

General Information			
Additive	Antistatic property		
Features	Antistatic property		
	Good processing stability		
	The smell is low to none		
	Compliance of Food Exposure		
	General		
Uses	Bottle		
	General		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal CO-630, F50)	50.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	28.3	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	1230	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	338	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525
Additional Information			

Elongation at Break, ASTM D638: >600%Tensile Impact, ASTM D1822: 161 ft-lb/in

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