Alathon® L5840AS

High Density Polyethylene

LyondellBasell Industries

Message:

ALATHON L 5840AS is a lightweighting resin that exhibits excellent color, low odor and provides processing stability. Typical applications include household chemicals, industrial chemicals, detergent, and motor oil bottles. L 5840AS contains antistat.

General Information			
Additive	Antistatic property		
Features	Antistatic property Good processing stability The smell is low to none Compliance of Food Exposure		
Uses	Bottle		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.958	g/cm³	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)	25.0	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	30.3	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	1450	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength	294	kJ/m²	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	81.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	128	°C	ASTM D1525
Additional Information			

Elongation at Break, ASTM D638: >600%Tensile Impact, ASTM D1822: 140 ft-lb/in

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Recommended distributors for this material

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