

# Alathon® L5840

High Density Polyethylene  
LyondellBasell Industries

## Message:

ALATHON L5840 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. L5840 containing antistat is available as L5840AS.

General Information			
UL YellowCard	E62552-247283		
Features	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/cm <sup>3</sup>	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/m <sup>2</sup>	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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