

Alathon® L5040AS

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON L5040 is able to incorporate high levels of post consumer recycle and retain excellent bottle physical properties. This resin provides high ESCR and processing stability. Typical applications include stress crack resistant bottles and extruded pipe and conduit. L5040 containing antistat is available as L5040AS

General Information			
Additive	Antistatic property		
Recycled Content	Yes		
Features	High ESCR (Stress Cracking Resistance)		
	Antistatic property		
	Good processing stability		
	Compliance of Food Exposure		
Uses	Catheter		
	Piping system		
	Bottle		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow molding		
	Pipeline extrusion molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal CO-630, F50)	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	23.4	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Flexural Modulus	1100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	395	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	< -75.0	°C	ASTM D746
Vicat Softening Temperature	128	°C	ASTM D1525

Additional Information

Elongation at Break, ASTM D638: >600%Tensile Impact, ASTM D1822: 188 ft-lb/in

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Recommended distributors for this material

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