

Alathon® L5332CP

High Density Polyethylene

LyondellBasell Industries

Message:

Alathon L5332CP is bimodal molecular weight distribution, fractional melt index HDPE resin that exhibits an exceptional balance of environmental stress crack resistance and stiffness. Typical applications include blow molded containers for packaging household and agricultural chemicals, particularly those that are strong stress crack-inducing reagents.

Alathon L5332CP exhibits an excellent balance of stiffness and environmental stress crack resistance. Typical end uses include thick sheet for architectural applications and for assembly into industrial parts.

General Information	
Features	Food Contact Acceptable Good Stiffness High ESCR (Stress Crack Resist.)
Uses	Blow Molding Applications Containers Industrial Applications Sheet
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blow Molding Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.32	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal)	450	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	27.6	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	8.0	%	
Break	> 800	%	
Flexural Modulus - 2% Secant	1100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact	101	J/cm	ASTM D1822
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	69.0	°C	ASTM D648
Vicat Softening Temperature	127	°C	ASTM D1525

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