

Alathon® L5332CP

High Density Polyethylene

LyondellBasell Industries

Technical Data

Product Description

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.

General

Material Status	• Commercial: Active		
Literature ¹	• Processing - Mold Shrink (English) • Processing - Polyolefin Injection Molding Guide (English) • Processing - Start-Up Guide (English) • Technical Datasheet (English)		
Search for UL Yellow Card	• LyondellBasell Industries • Alathon®		
Availability	• Asia Pacific • Europe	• North America • South America	
Features	• Bimodal Molecular Weight Distribution • Food Contact Acceptable	• Good Stiffness • High ESCR (Stress Crack Resist.)	• Low Flow
Uses	• Blow Molding Applications	• Packaging	
Agency Ratings	• FDA 21 CFR 177.1520		
Forms	• Pellets		
Processing Method	• Blow Molding		

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

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		ASTM D638
Yield	22.4 MPa	
Break	27.6 MPa	
Tensile Elongation		ASTM D638
Yield	8.0 %	
Break	> 800 %	
Flexural Modulus - 1% Secant	1230 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Tensile Impact	125 J/cm	ASTM D1822

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	66	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	62.0 °C	ASTM D648
Vicat Softening Temperature	127 °C	ASTM D1525

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.