

Petrothene® LT493701

High Density (UHMW) Polyethylene
LyondellBasell Industries

Message:

Petrothene LT493701 exhibits an enhanced balance of stiffness and environmental stress crack resistance. Typical applications include bottles for bleach, detergents, and household chemicals.

General Information			
Features	Food Contact Acceptable		
	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
Uses	Blow Molding Applications		
	Bottles		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.34	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal CO-630, F50)	300	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)	24.4	MPa	ASTM D638
Tensile Elongation (Break)	1300	%	ASTM D638
Flexural Modulus - 1% Secant	1080	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact	71.5	J/cm	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	65.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525

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