

Petrothene® LT570401

High Density Polyethylene

LyondellBasell Industries

Message:

Petrothene LT570401 resin exhibits good stiffness and environmental stress crack resistance. Typical applications are bleach and household chemical bottles.

General Information			
UL YellowCard	E62552-247287		
Features	Food Contact Acceptable		
	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
Uses	Bottles		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
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/21.6 kg)	21	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
--	> 1000	hr	ASTM D2561
50°C, 100% Igepal CO-630, F50	200	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	26.2	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	1000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact	66.2	J/cm	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	126	°C	ASTM D1525

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