

Petrothene® LT573501

High Density Polyethylene

LyondellBasell Industries

Message:

Petrothene LT573501 exhibits an enhanced balance of stiffness and environmental stress crack resistance. Typical applications include bottles for bleach, detergents, and household chemicals.

General Information			
Features	Rigid, good High ESCR (Stress Cracking Resistance) Compliance of Food Exposure		
Uses	Blow molding applications Bottle		
Agency Ratings	FDA 21 CFR 175.1520		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.957	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal CO-630, F50)	55.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	29.0	MPa	ASTM D638
Tensile Elongation (Break)	1400	%	ASTM D638
Flexural Modulus - 1% Secant	1380	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact	57.1	J/cm	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525

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