

Petrothene® LB560401

High Density Polyethylene
LyondellBasell Industries

Message:

Petrothene LB560401 exhibits good stiffness and environmental stress crack resistance. Typical applications include household chemical and personal care product bottles.

General Information			
Features	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
Uses	Bottles		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
--	> 500	hr	ASTM D2561
100% Igepal CO-630, F50	25.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	26.9	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	242	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648
Brittleness Temperature ¹	< -76.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525
NOTE			

1. Low Temperature; F50

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