

# Petrothene® LB560201

High Density Polyethylene

LyondellBasell Industries

## Message:

The Petrothene LB5602 series of polyethylene resins exhibits excellent environmental stress crack resistance and stiffness. Typical applications include bottles for household chemicals such as bleach, cleaners and detergents.

General Information			
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	0.952	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal CO-630, F50)	35.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	27.3	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	1280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact	64.1	J/cm	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525

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