

Petrothene® LB500301

High Density Polyethylene
LyondellBasell Industries

Message:

PETROTHENE LB500301 is a polyethylene resin that exhibits excellent environmental stress crack resistance and is especially designed for heavy duty bottles, such as those containing detergent and chemicals.

General Information			
Features	Food Contact Acceptable		
	High ESCR (Stress Crack Resist.)		
Uses	Bottles		
	Containers		
Agency Ratings	FDA 21 CFR 177.1520		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
Condition B, F50	> 500	hr	ASTM D2561
100% Igepal CO-630, F50	75.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	26.2	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	1170	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)	72.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	122	°C	ASTM D1525

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