

# Petrothene® LP500200

High Density Polyethylene

LyondellBasell Industries

## Message:

The PETROTHENE LP5002 series of polyethylene resins exhibits excellent environmental stress crack resistance and is especially designed for bottles containing aggressive agricultural and household chemicals.

General Information	
UL YellowCard	E62552-247286
Features	Food Contact Acceptable
	High ESCR (Stress Crack Resist.)
Uses	Bottles
	Profiles
	Sheet
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blow Molding
	Profile Extrusion
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
F50	> 1000	hr	ASTM D2561
50°C, 10% Igepal CO-630, F50	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	23.4	MPa	ASTM D638
Tensile Elongation (Break)	> 800	%	ASTM D638
Flexural Modulus	965	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact	131	J/cm	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	66.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746

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#### Recommended distributors for this material

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