

# Petrothene® LP510031

High Density Polyethylene  
LyondellBasell Industries

Message:

Petrothene LP510031 is selected by customers for use in large-part blow molding of durable goods and for deep-draw sheet extrusion / thermoforming applications. LP510031 exhibits excellent impact resistance and excellent environmental stress crack resistance.

General Information	
Features	Copolymer
	Food Contact Acceptable
Uses	Blow Molding Applications
	Sheet
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blow Molding
	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	12	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (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)	25.5	MPa	ASTM D638
Tensile Elongation (Break)	> 800	%	ASTM D638
Flexural Modulus - 1% Secant	1140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	> 420	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	122	°C	ASTM D1525

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