

Petrothene® LB010000

High Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE LB 010000 is a high-density polyethylene copolymer reactor powder that does not contain any additives. LB010000 combines the unique properties of a polyolefin resin with a small particle size. Typical applications include extruded wood/natural fiber - plastic composites (WPCs) and mineral or fiberglass filled plastic composites.

General Information			
Features	Additive Free		
	Copolymer		
	High Density		
Uses	Simulated Wood Parts		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	35.0	hr	ASTM D1693
Average Particle Size	20	mesh	Internal Method
Particle Shape	Irregular		
Tensile Impact	64.1	J/cm	ASTM D1822
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
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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