


Petrothene®

LB010000

**High Density Polyethylene
Copolymer Powder**
Melt Index 0.50 Density 0.953
Applications

PETROTHENE LB010000 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.

**Processing
Techniques**

The small particle size of LB010000 facilitates dispersion with other components. Specific recommendations for processing LB010000 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales representative.

**Typical
Properties**

Property	Nominal Value	Units	ASTM Test Method
Melt Index	0.50	g/10 min	D 1238
Density	0.953	g/cc	D 1505
Tensile Strength @ Break	3,960	psi	D 638
Elongation @ Break	>600	%	D 638
Flexural Modulus	185,000	psi	D 790
Tensile Impact	120	ft-lb/in.	D 1822
Low Temperature Brittleness, F ₅₀	<-76	°C	D 746
Heat Deflection Temperature @ 66 psi	75	°C	D 648
Vicat Softening Point	123	°C	D 1525
Hardness, Shore D	66		D 2240
Environmental Stress Crack Resistance, F ₅₀ Bent Strip	35	hrs	D 1693
Powder Property			
Particle Shape	Irregular		
Average Particle Size	20	Mesh	ETM Sieve Analysis*

*ETM = Equistar Test Method

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