

## Technical Data Sheet

### *Petrothene* LB560402



High Density Polyethylene

#### Product Description

*Petrothene* LB560402 exhibits good stiffness and environmental stress crack resistance. Typical applications include household chemical and personal care product bottles.

#### Regulatory Status

For regulatory compliance information, see *Petrothene* LB560402 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

<b>Status</b>	Commercial: Active
<b>Availability</b>	North America
<b>Application</b>	Bottles For Consumer Goods
<b>Market</b>	Rigid Packaging
<b>Processing Method</b>	Extrusion Blow Molding; Sheet and Profile Extrusion

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (190 °C/2.16 kg)	0.35	g/10 min	0.35	g/10 min	ASTM D1238
Density, (23 °C)	0.952	g/cm <sup>3</sup>	0.952	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>					
Flexural Modulus, (1% Secant)	180000	psi	1240	MPa	ASTM D790
Tensile Strength at Yield	3900	psi	26.9	MPa	ASTM D638
Tensile Elongation at Break	>600	%	>600	%	ASTM D638
Environmental Stress Crack Resistance, F <sub>50</sub> (100% Igepal®, Cond B)	25	hr	25	hr	ASTM D1693
<b>Impact</b>					
Tensile Impact Strength	115	ft-lb/in <sup>2</sup>	242	kJ/m <sup>2</sup>	ASTM D1822
<b>Hardness</b>					
Shore Hardness, (Shore D)	66		66		ASTM D2240
<b>Thermal</b>					
Vicat Softening Temperature	253	°F	123	°C	ASTM D1525
Low Temperature Brittleness, F <sub>50</sub>	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	165	°F	74	°C	ASTM D648