

## Technical Data Sheet

### *Petrothene* LB832002



High Density Polyethylene

#### Product Description

*Petrothene* LB832002 is a high density polyethylene resin selected by customers for sheet extrusion and thermoforming. LB832002 exhibits very low sag, high stiffness and good chemical resistance.

#### Regulatory Status

For regulatory compliance information, see *Petrothene* LB832002 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

<b>Status</b>	Commercial: Active
<b>Availability</b>	North America
<b>Application</b>	General Sheet Extrusion
<b>Market</b>	Rigid Packaging
<b>Processing Method</b>	Sheet and Profile Extrusion
<b>Attribute</b>	High Stiffness

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (190 °C/2.16 kg)	0.29	g/10 min	0.29	g/10 min	ASTM D1238
Density, (23 °C)	0.962	g/cm <sup>3</sup>	0.962	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>					
Flexural Modulus					
(1% Secant)	250000	psi	1720	MPa	ASTM D790
(2% Secant)	205000	psi	1410	MPa	ASTM D790
Tensile Strength at Yield	4600	psi	31.7	MPa	ASTM D638
Tensile Elongation at Break	>600	%	>600	%	ASTM D638
<b>Hardness</b>					
Shore Hardness, (Shore D)	67		67		ASTM D2240
<b>Thermal</b>					
Vicat Softening Temperature	268	°F	131	°C	ASTM D1525
Low Temperature Brittleness, F <sub>50</sub>	<-105	°F	<-76	°C	ASTM D746

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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