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).

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

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
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/cm³	0.962	g/cm³	ASTM D1505
Mechanical					
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
Hardness					
Shore Hardness, (Shore D)	67		67		ASTM D2240
Thermal					
Vicat Softening Temperature	268	°F	131	°C	ASTM D1525
Low Temperature Brittleness, F_{50}	<-105	°F	<-76	°C	ASTM D746

Manufacturer website: https://www.lyondellbasell.com/en/

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/.

© LyondellBasell Industries Holdings, B.V. 2026

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.