Technical Data Sheet

Petrothene NA336149

Low Density Polyethylene

Product Description

Petrothene NA336149 is a low density homopolymer resin selected by customers for applications that require thin gauge film constructions. NA336149 is known for its consistency, excellent drawdown and processability.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA336149 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Bags & Pouches; Can Liners; Clarity Film; Film Wrap; Food Packaging Film; Liner Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	6.5	g/10 min	6.5	g/10 min	ASTM D1238
Density, (23 °C)	0.920	g/cm³	0.920	g/cm³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	90	g	90	g	ASTM D1709
Tensile Strength at Break					
MD	2500	psi	17.2	MPa	ASTM D882
TD	2020	psi	13.9	MPa	ASTM D882
Tensile Elongation at Break					
MD	225	%	225	%	ASTM D882
TD	450	%	450	%	ASTM D882
1% Secant Modulus					
MD	21200	psi	146	MPa	ASTM D882
TD	24000	psi	165	MPa	ASTM D882
Elmendorf Tear Strength					
MD	350	g	350	g	ASTM D1922
TD	150	g	150	g	ASTM D1922
Thermal					
Vicat Softening Temperature	185	°F	85	°C	ASTM D1525
Optical					
Haze	8	%	8	%	ASTM D1003
Gloss, (45°)	62		62		ASTM D2457
Additive					
Slip	1350	ppm	1350	ppm	LYB Method
Antiblock	4000	ppm	4000	ppm	LYB Method

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

Notes

Data obtained from 1.25 mil (32 micron) film produced on a blown film line with a 8" (203 mm) die, 325°F (163°C) melt temperature and a 2.2:1 BUR.

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.