

Technical Data Sheet

Petrothene NA334000

Low Density Polyethylene



Product Description

Petrothene NA334000 is a low density homopolymer resin selected by customers for thin film and profile applications. NA334000 is known for its consistency, exceptional drawdown and processability.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA334000 [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)	6.0	g/10 min	6.0	g/10 min	ASTM D1238
Density, (23 °C)	0.919	g/cm ³	0.919	g/cm ³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	65	g	65	g	ASTM D1709
Tensile Strength at Break					
MD	2200	psi	15.2	MPa	ASTM D882
TD	2000	psi	13.8	MPa	ASTM D882
Tensile Elongation at Break					
MD	300	%	300	%	ASTM D882
TD	450	%	450	%	ASTM D882
1% Secant Modulus					
MD	20000	psi	138	MPa	ASTM D882
TD	23000	psi	159	MPa	ASTM D882
Thermal					
Vicat Softening Temperature	185	°F	85	°C	ASTM D1525
Optical					
Haze	12	%	12	%	ASTM D1003
Gloss, (45°)	50		50		ASTM D2457
Additive					
Slip	None		None		LYB Method
Antiblock	None		None		LYB Method

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/>.

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- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

The product(s) may not be used in:

- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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