

Technical Data Sheet

Petrothene NA285003

Low Density Polyethylene



Product Description

Petrothene NA285003 is a medium density polyethylene resin selected by customers for blown or cast film extrusion. Typical applications include overwrap film. This product exhibits good film optics and high stiffness.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA285003 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Caps & Closures; Clarity Film
Market	Flexible Packaging
Processing Method	Cast Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	6.2	g/10 min	6.2	g/10 min	ASTM D1238
Density, (23 °C)	0.930	g/cm ³	0.930	g/cm ³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	60	g	60	g	ASTM D1709
Tensile Strength at Break					
MD	4400	psi	30.3	MPa	ASTM D882
TD	4200	psi	29.0	MPa	ASTM D882
Tensile Elongation at Break					
MD	500	%	500	%	ASTM D882
TD	600	%	600	%	ASTM D882
1% Secant Modulus					
MD	38000	psi	262	MPa	ASTM D882
TD	43000	psi	296	MPa	ASTM D882
Optical					
Haze	7.0	%	7.0	%	ASTM D1003
Gloss, (45°)	65		65		ASTM D2457
Additive					
Slip	None		None		LYB Method
Antiblock	None		None		LYB Method

Notes

Film gauge: 1.25 mil (32 micron)

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

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Petrothene NA285003
Recipient Tracking #:
Request #: 907699

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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Users should review the applicable Safety Data Sheet before handling the product.

This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (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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