

Technical Data Sheet

Petrothene NA324013

Low Density Polyethylene



Product Description

Petrothene NA324013 is a low density homopolymer resin selected by customers for overwrap packaging and household film. NA324013 provides excellent optical properties and good stiffness for improved machineability.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA324013 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Film Wrap
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)	3.0	g/10 min	3.0	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.931	g/cm ³	0.931	g/cm ³	ASTM D1505
Product Density, (23 °C)	0.931	g/cm ³	0.931	g/cm ³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	62	g	62	g	ASTM D1709
Tensile Strength at Break					
MD	3400	psi	23.4	MPa	ASTM D882
TD	2250	psi	15.5	MPa	ASTM D882
Tensile Elongation at Break					
MD	410	%	410	%	ASTM D882
TD	420	%	420	%	ASTM D882
1% Secant Modulus					
MD	47000	psi	324	MPa	ASTM D882
TD	58000	psi	400	MPa	ASTM D882
Optical					
Haze	6.8	%	6.8	%	ASTM D1003
Gloss, (60°)	68		68		ASTM D2457
Additive					
Slip	None		None		LYB Method
Antiblock	None		None		LYB Method

Product	Product Density(g/cm ³)	Slip(ppm)	Antiblock (ppm)
NA324013	0.931	None	None
NA324244	0.934	1600	6000

Notes

Data obtained from 1.25 mil (32 micron) film produced on a blown film line with a 8" (203 mm) die, 375°F (191°C) melt temperature, 2:1 BUR, 0.025" die gap at 100 lbs/hr.

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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- (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.

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- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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