

Technical Data Sheet

Petrothene NA420013

Ethylene Vinyl Acetate



Product Description

Petrothene NA420013 is a LDPE/EVA copolymer resin selected by customers for high clarity packaging film and other applications that require easy processing and improved sealing properties.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA420013 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Bags & Pouches; Clarity Film; Film Wrap; Food Packaging Film; Lamination Film; Sealants; Secondary Packaging; Specialty 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)	2.5	g/10 min	2.5	g/10 min	ASTM D1238
Density, (23 °C)	0.924	g/cm ³	0.924	g/cm ³	ASTM D1505
Vinyl Acetate Content	2.5	%	2.5	%	LYB Method
Film					
Dart Drop Impact Strength, F50	150	g	150	g	ASTM D1709
Tensile Strength at Break					
MD	3500	psi	24.1	MPa	ASTM D882
TD	3100	psi	21.4	MPa	ASTM D882
Tensile Elongation at Break					
MD	470	%	470	%	ASTM D882
TD	620	%	620	%	ASTM D882
1% Secant Modulus					
MD	22500	psi	155	MPa	ASTM D882
TD	24000	psi	165	MPa	ASTM D882
Elmendorf Tear Strength					
MD	190	g	190	g	ASTM D1922
TD	250	g	250	g	ASTM D1922
Thermal					
Vicat Softening Temperature	194	°F	90	°C	ASTM D1525
Optical					
Haze	3.5	%	3.5	%	ASTM D1003
Gloss, (45°)	85		85		ASTM D2457
Additive					
Slip	None		None		LYB Method

LyondellBasell
Technical Data Sheet
Date: 7/25/2017

Page 1 of 4

Petrothene NA420013
Recipient Tracking #:
Request #: 909102

Antiblock	None	None	LYB Method
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Notes

Data obtained from 2.0 mil (51 micron) film produced on a blown film line with a 4" (102 mm) die, 370 °F (188 °C) melt temperature, 2.5:1 BUR, 0.025" die gap at 60 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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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.

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- (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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