

Technical Data Sheet

Petrothene NA340163



Ethylene Vinyl Acetate

Product Description

Petrothene NA340 is a series of LDPE/EVA copolymer resins selected by customers for film applications that require clarity and good impact strength. Typical applications include heavy produce, textile, frozen food packaging and sealant films.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA340163 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Clarity 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)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Vinyl Acetate Content	4.0	%	4.0	%	LYB Method
Film					
Dart Drop Impact Strength, F50	140	g	140	g	ASTM D1709
Tensile Strength at Break					
MD	3700	psi	25.5	MPa	ASTM D882
TD	3100	psi	21.4	MPa	ASTM D882
Tensile Elongation at Break					
MD	340	%	340	%	ASTM D882
TD	500	%	500	%	ASTM D882
1% Secant Modulus					
MD	21000	psi	145	MPa	ASTM D882
TD	24000	psi	165	MPa	ASTM D882
Elmendorf Tear Strength					
MD	180	g	180	g	ASTM D1922
TD	250	g	250	g	ASTM D1922
Thermal					
Vicat Softening Temperature	203	°F	95	°C	ASTM D1525
Optical					
Haze	4.0	%	4.0	%	ASTM D1003
As measured on NA340141 (high slip, medium antiblock).					
Gloss, (45°)	75		75		ASTM D2457
As measured on NA340141 (high slip, medium antiblock).					
Additive					

Slip	500 ppm	500 ppm	LYB Method
Antiblock	2000 ppm	2000 ppm	LYB Method
Processing Parameters			
Melt Temperature	330 - 375 °F	165 - 191 °C	

Product	Slip(ppm)	Antiblock (ppm)
NA340013	None	None
NA340141	1000	1700
NA340163	500	2000
NA340185	850	3000
NA340212	None	2000

Notes

Film data obtained from sample produced on a 3 1/2" (89mm) blown film line, commercially available 8" (203 mm) die, 375°F (191°C) melt extrusion temperature, 2:1 BUR, 1.25 mil (32 micron) gauge, 0.025" die gap at 130 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.

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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.

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- (ii) applications involving permanent implantation into the body;
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