

Technical Data Sheet

Petrothene NA362005

Ethylene Vinyl Acetate



Product Description

Petrothene NA362005 is a LDPE/EVA copolymer resin selected by customers for use in bag-in-box, heavy-duty skin packaging and other high strength, easy to seal packaging. NA362005 is also used in wire & cable applications. NA362005 exhibits high impact strength, good low temperature toughness and flexibility.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA362005 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Bags & Pouches; Film Wrap; Heavy Duty Packaging; Stretch Hood; Wire & Cable
Market	Flexible Packaging; Rigid Packaging; Wire & Cable
Processing Method	Blown Film; Extrusion Blow Molding; Wire & Cable

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.5	g/10 min	0.5	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.926	g/cm ³	0.926	g/cm ³	ASTM D1505
Vinyl Acetate Content	6.6	%	6.6	%	LYB Method
Film					
Dart Drop Impact Strength, F50	310	g	310	g	ASTM D1709
Tensile Strength at Break					
MD	3800	psi	26.2	MPa	ASTM D882
TD	3600	psi	24.8	MPa	ASTM D882
Tensile Elongation at Break					
MD	500	%	500	%	ASTM D882
TD	600	%	600	%	ASTM D882
1% Secant Modulus					
MD	17000	psi	117	MPa	ASTM D882
TD	21000	psi	145	MPa	ASTM D882
Elmendorf Tear Strength					
MD	140	g	140	g	ASTM D1922
TD	260	g	260	g	ASTM D1922
Thermal					
Vicat Softening Temperature	189	°F	87	°C	ASTM D1525
Additive					
Slip	None		None		LYB Method
Antiblock	None		None		LYB Method

Notes

Film data obtained from sample produced on a 3 1/2" (89mm) blown film line, commercially available 8" (203 mm) die, 430°F (221°C) melt extrusion temperature, 2:1 BUR, 2.0 mil (51 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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- (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;
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