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

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

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<th>Test Method</th>
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**Physical**

- **Melt Flow Rate, (190 °C/2.16 kg)**
  - Nominal Value: 0.5 g/10 min
  - Test Method: ASTM D1238

- **Base Resin Density, (23 °C)**
  - Nominal Value: 0.926 g/cm³
  - Test Method: ASTM D1505

- **Vinyl Acetate Content**
  - Nominal Value: 6.6%
  - Test Method: LYB Method

**Film**

- **Dart Drop Impact Strength, F50**
  - Nominal Value: 310 g
  - Test Method: ASTM D1709

- **Tensile Strength at Break**
  - MD: 3800 psi
  - TD: 3600 psi
  - Nominal Value: 26.2 MPa
  - Test Method: ASTM D882

- **Tensile Elongation at Break**
  - MD: 500%
  - TD: 600%
  - Nominal Value: 500%
  - Test Method: ASTM D882

- **1% Secant Modulus**
  - MD: 17000 psi
  - TD: 21000 psi
  - Nominal Value: 117 MPa
  - Test Method: ASTM D882

- **Elmendorf Tear Strength**
  - MD: 140 g
  - TD: 260 g
  - Nominal Value: 140 g
  - Test Method: ASTM D1922

**Thermal**

- **Vicat Softening Temperature**
  - Nominal Value: 189 °F, 87 °C
  - Test Method: ASTM D1525

**Additive**

- **Slip**
  - Nominal Value: None
  - Test Method: LYB Method

- **Antiblock**
  - Nominal Value: None
  - Test Method: 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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