

LyondellBasell Petrothene® NA362005 Low Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

Material Notes:

ApplicationsPETROTHENE NA 362 is a series of low density/EVA copolymers designed for ice bags, bag-in-box, heavy-duty skin packaging and other high strength, easy to seal packaging. NA 362 exhibits high impact strength and good low temperature toughness. **Regulatory Status**The base resin NA 362 meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1350. This regulation allows the use of this ethylene vinyl acetate copolymer "in articles or components of articles intended for use in contact with food." **Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information. Processing Techniques**Specific recommendations for processing NA 362 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales representative.**Physical Properties**These are typical values and not to be construed as specific product limits. Data obtained from film produced in a 3.5"(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 170 lb/hr.This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA362005-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in ³	ASTM D1505
Vinyl Acetate Content	6.6 %	6.6 %	
Thickness	50.8 microns	2.00 mil	2:1 BUR; 25 mil die gap
Melt Flow	0.50 g/10 min	0.50 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	500 %	500 %	ASTM D882
Film Elongation at Break, TD	600 %	600 %	ASTM D882
Elmendorf Tear Strength MD	140 g	140 g	ASTM D1922
Elmendorf Tear Strength TD	260 g	260 g	ASTM D1922
Dart Drop Test	310 g	0.684 lb	F ₅₀ ; ASTM D1709
Film Tensile Strength at Break, MD	26.2 MPa	3800 psi	ASTM D882
Film Tensile Strength at Break, TD	24.8 MPa	3600 psi	ASTM D882
1% Secant Modulus, MD	117 MPa	17000 psi	ASTM D882
1% Secant Modulus, TD	145 MPa	21000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	87.0 Å°C	189 Å°F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	221 Å°C	430 Å°F	

Descriptive Properties	Value	Comments
Antiblock	None	
Slip	None	

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