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Petrothene

NA442

Low Density Polyethylene Film Extrusion Grade

Melt Index: 1.5 Vinyl Acetate Content: 5.0%



Applications

Petrothene NA442 is a series of LDPE/EVA copolymer resins selected by customers for high impact/high clarity packaging and lamination applications.

Regulatory Status

The base resin NA442 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 product safety representative for more information.

Processing Techniques

Optimum properties are obtained over a broad range of extrusion conditions at melt temperatures between 330°- 380°F (166°- 194°C), and a blow-up ratio between 1.7-3.0:1. Specific recommendations for processing NA442 can be made only when the end use application, required properties and the processing equipment are known.

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Typical Properties

	Nominal		ASTM
Property	Value	Units	Test Method
Melt Index	1.5	g/10 min	D1238
Vinyl Acetate Content	5.0	%	
Vicat Softening Point	88	°C	D1525
Film*			
Haze ¹	4	%	D1003
Gloss, 45°1	75		D2457
Tensile Strength, MD (TD)	3,600 (2,800)	psi	D882
Elongation, MD (TD)	320 (550)	%	D882
1% Secant Modulus, MD (TD)	19,000 (24,000)	psi	E111
Dart Drop Impact Strength, F ₅₀	140	g	D1709
Elmendorf Tear Strength, MD (TD)	160 (180)	g	D1922

 Product
 NA442051

 Slip (ppm)
 500

 Antiblock (ppm)
 1,000

These are typical values not to be construed as specification limits.

Data obtained from film produced on a 3½" (89 mm) 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 lb/hr.