

Petrothene[®]

NA 985

Low Density Polyethylene Film Extrusion Grade

Melt Index 0.25 Density 0.921

Applications

PETROTHENE NA 985 is a series of ethylene vinyl acetate copolymer resins designed for heavy-duty applications produced by blown film extrusion. The NA 985 series exhibits high impact strength and good heat seal characteristics.

Regulatory Status

NA 985 meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1350. This regulation allows the use of this material as articles or components of articles that are "...intended for use in producing, manufacturing, packing, processing, preparing, treating, packaging, transporting or holding food." Specific limitations, conditions of use or extraction testing may apply. Contact your Equistar sales representative for more information.

Processing Techniques

Specific recommendations for processing NA 985 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

Typical Properties*

Property	Nominal Value	Units	ASTM Test Method
Melt Index	0.25	g/10 min	D 1238
Base Resin Density	0.921	g/cc	D 1505
Vinyl Acetate Content	1.5	%	
Vicat Softening Point	91	°C	D 1525
Film**			
Dart Drop Impact Strength, F ₅₀	230	g	D 1709
Tensile Strength, MD (TD)	3,000 (2,800)	psi	D 882
1% Secant Modulus, MD (TD)	22,000 (26,000)	psi	E 111
Elongation, MD (TD)	320 (500)	%	D 882
Elmendorf Tear Strength, MD (TD)	190 (240)	g	D 1922

Products	NA 985-107	NA 985-132
Slip	None	Low
Antiblock	High	High

*These are typical values and are not to be construed as specific product limits.

**Data obtained from film produced in a 3½" (89 mm) 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.

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