

Petrothene®

NA336

Low Density Polyethylene

Film Extrusion Grade

Melt Index 6.5 Density 0.920

Applications

PETROTHENE NA336 is a series of homopolymer resins specifically engineered for garment film and dry cleaning bag applications. These resins are also suitable for any applications that require thin gauge film constructions. NA336 resins are known for their consistency, exceptional drawdown and processability.

Regulatory Status

NA334000 meets the requirements of the Food and Drug Administration, regulation 21 CFR 177.1520. This regulation allows the use of this olefin polymer "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

NA336 resins have been specifically designed to provide outstanding drawdown at maximum outputs. The melt strength properties of these resins result in excellent bubble stability. These resins can be processed over a wide range of temperatures; however, recommended conditions are melt temperatures between 300°-330°F (149°-166°C) and a blow-up ratio between 2.0-2.5:1. Using proper techniques and equipment, drawdown to 0.25 mil (6 microns) is feasible at commercial production rates. Specific recommendations for processing NA336 resins can be made only 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	6.5	g/10 min	D 1238
Density	0.920	g/cc	D 1505
Vicat Softening Point	85	°C	D 525
Film*			
Haze	8	%	D 1003
Gloss, 45°	62		D 2457
Dart Drop Impact Strength, F ₅₀	90	g	D 1709
Tensile Strength, MD (TD)	2,500 (2,020)	psi	D 882
Elongation, MD (TD)	225 (450)	%	D 882
1% Secant Modulus, MD (TD)	21,200 (24,000)	psi	E 111
Elmendorf Tear Strength, MD (TD)	350 (150)	g	D 1922
Product	NA336149	NA336201	
Slip	High	High	
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, 325°F (163°C) melt extrusion temperature, 2.2:1 BUR, 1.25 mil (32 micron)

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