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Petrothene

NA345

Low Density Polyethylene Film Extrusion Grade

Melt Index: 1.8 Density: 0.921



Applications

Petrothene NA345 is a series of homopolymer resins that combine premium clarity with strength and stiffness. In addition, NA345 exhibits good impact strength on both flat and creased film. NA345 is selected by customers for textile packaging, light produce, bread bags and other thin packaging films enhanced by clarity and sparkle.

Regulatory Status

The base resin NA345 meets the requirements of the Food and Drug Administration, 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 product safety representative for more information.

Processing Techniques

Specific recommendations for processing NA345 resins can only be made when the processing conditions, equipment and end use are known.

Typical Properties

		Nominal		ASTM
Property		Value	Units	Test Method
Melt Index	(1.8	g/10 min	D1238
Base Res	in Density	0.921	g/cc	D1505
Vicat Soft	ening Point	100	°C	D1525
Film*				
Haze ¹		5.0	%	D1003
Gloss, 45°	21	70	units	D2457
Dart Drop	impact Strength, F ₅₀	90	g	D1709
Tensile St	rength @ Yield, MD (TD)	1,500 (1,600)	psi	D882
Tensile St	rength @ Break MD (TD)	4,000 (3,400)	psi	D882
Elongation	n, MD (TD)	300 (500)	%	D882
1% Secar	nt Modulus, MD (TD)	26,000 (30,000)	psi	D882
Elmendor	f Tear Strength, MD (TD)	360 (200)	g g	D1922

Product	NA345013	NA345184	NA345196
Slip (ppm)	None	None	750
Antiblock (ppm)	None	1,500	1,500

^{*} 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.

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

Optical properties given for NA345196 (medium slip, medium antiblock)