

Petrothene

NA340

Low Density Polyethylene

Film Extrusion Grade

Melt Index: 1.0 Vinyl Acetate Content: 4.0%



Applications

Petrothene NA340 is a series of LDPE/EVA copolymer resins selected by customers for film applications that require clarity and good impact strength. Typical applications include heavy produce, textile, frozen food packaging and sealant films.

Regulatory Status

The base resin NA340 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

NA340 resins are processed readily by standard blown film extrusion techniques. A processing melt temperature of 330°- 375°F (165°- 191°C) is suggested for this resin. Specific recommendations for the processing of NA 340 can only be made when the processing conditions, equipment and end use are known.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	1.0	g/10 min	D1238
Vinyl Acetate Content	4.0	%	
Vicat Softening Point	95	°C	D1525
Film*			
Haze ¹	4.0	%	D1003
Gloss, 45° ¹	75	units	D2457
Dart Drop Impact Strength, F ₅₀	140	g	D1709
Tensile Strength @ Break, MD (TD)	3,700 (3,100)	psi	D882
Elongation @ Break, MD (TD)	340 (500)	%	D882
1% Secant Modulus, MD (TD)	21,000 (24,000)	psi	E111
Elmendorf Tear Strength, MD (TD)	180 (250)	g	D1922

Product	NA340013	NA340141	NA340163	NA340185	NA340212
Slip (ppm)	None	1,000	500	850	None
Antiblock (ppm)	None	1,700	2,000	3,000	2,000

* 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.

¹ Optical properties given for NA340141 (high slip, medium antiblock).

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