

Petrothene

NA324

Medium Density Polyethylene

Film Extrusion Grade

Melt Index: 3.0 Density: 0.931

**Applications**

Petrothene NA324 is a series of homopolymer resins selected by customers for overwrap packaging and household film. NA324 provides excellent optical properties and good stiffness for improved machineability.

Regulatory Status

The base resin NA324 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 product safety representative for more information.

Processing Techniques

Specific recommendations for processing NA324 can be made only when the end use applications, required properties and processing equipment are known.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	3.0	g/10 min	D1238
Base Resin Density	0.931	g/cc	D1505
Film*			
Haze**	6.8	%	D1003
Gloss**, 60°	68		D2457
Dart Drop Impact Strength, F ₅₀	62	g	D1709
Tensile Strength @ Break, MD (TD)	3,400 (2,250)	psi	D882
1% Secant Modulus, MD (TD)	47,000 (58,000)	psi	D882
Elongation, MD (TD)	410 (420)	%	D882

Product	<u>NA324013</u>	<u>NA324244</u>
Slip (ppm)	None	1,600
Antiblock (ppm)	None	6,000

* 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 100 lb/hr.

** Optical properties given for NA324013