

Petrothene

NA143

Low Density Polyethylene

Film Extrusion Grade

Melt Index: 2.0 Density: 0.922



Applications

Petrothene NA143 is a series of homopolymer resins selected by customers for blown film. Typical applications include stiff liners. NA143 exhibits good processability and clarity.

Regulatory Status

The base resin NA143 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 NA143 resins 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	2.0	g/10 min	D1238
Density	0.922	g/cc	D1505
Vicat Softening Point	93	°C	D1525
Film*			
Haze	6.0	%	D1003
Gloss, 45°	70		D2457
Tensile Strength, MD (TD)	3,400 (2,500)	psi	D882
Elongation, MD (TD)	300 (500)	%	D882
Dart Drop Impact Strength, F ₅₀	90	g	D1709
1% Secant Modulus, MD (TD)	28,000 (32,000)	psi	E111
Elmendorf Tear Strength, MD (TD)	380 (200)	g	D1922
Molding¹			
Tensile Strength	1,720	psi	D638
Elongation @ Break	650	%	D638

Product	NA143063
Slip (ppm)	750
Antiblock (ppm)	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.

¹ Data derived from Type IV specimen, 75 mil plaque, @ 20" min.

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