

Petrothene NA143

LOW DENSITY POLYETHYLENE

LDPE FILM Extrusion Grade

Flow Index 2.0 g/10min Density 0.925 g/cm³

Applications

PETROTHENE NA143 is a series of homopolymer resins for blown film. Applications include stiff liners. NA143 exhibits good processability and clarity.

Regulatory Status

The basic resin NA143 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 regarding the suitability of specific products for specific applications.

Processing Techniques

Specific recommendations for processing NA143 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

Typical Properties

Property	Units	Nominal Value	ASTM Test Method
Melt Index	g/10 min	2.0	D 1238
Density	g/cc	0.921	D 1505
Vicat Softening Point	°C	93	D 1525
Film**			
Haze	%	6.0	D 1003
Gloss,		70	D 2457
Tensile Strength,	psi	3,400(2,500)	D 882
Elongation, MD (TD)	%	300 (500)	D 882
Dart Drop Impact Strength, F50	g	90	D 1709
1% Secant Modulus, MD (TD)	psi	28,000 (32,000)	E 111
Elmendorf Tear Strength, MD (TD)	g	380 (200)	D 1922
Molding			
Tensile Strength ¹	psi	1,720	D 638
Elongation @ Break	%	650	D 638

Product NA143063
Slip Medium
Antiblock Medium

* These are typical values and not to be construed as specific product limits.

** Data obtained from film produced in a 31?2" (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.