

Petrothene[®]

NA 951

Low Density Polyethylene

Film Extrusion Grade

Melt Index 2.2 Density 0.919

Applications

PETROTHENE NA 951 is a series of homopolymer resins specially designed for industrial and consumer packaging and liner and bag applications. NA 951 has an excellent balance of processability, toughness and drawdown.

Regulatory Status

The basic resin NA 951 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 further information regarding the suitability of specific products for specific applications.

Processing Techniques

Specific recommendations for processing NA 951 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	Value	Units	ASTM Test Method
Melt Index	2.2	g/10 min	D 1238
Base Resin Density	0.919	g/cc	D 1505
Vicat Softening Point	90	°C	D 1525
Film¹			
Dart Drop Impact Strength, F ₅₀	100	g	D 1709
Tensile Strength, MD (TD)	3,600 (2,500)	psi	D 882
Elongation, MD (TD)	250 (520)	%	D 882
Secant Modulus, MD (TD)	28,500 (33,000)	psi	E 111
Elmendorf Tear Strength, MD (TD)	320 (100)	g	D 1922
Molding			
Tensile Strength	1,970	psi	D 638
Elongation @ Break	600	%	D 638

Products

	<u>NA 951-000</u>	<u>NA 951-098</u>
Slip	None	None
Antiblock	None	High

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

** Data derived from type IV specimen, 75 mil plaque @ 20" min.

¹ Data obtained from film produced in a 3½" (89 mm) blown film line, commercially available 8" (203 mm) die, 350°F (177°C) melt extrusion temperature, 2:1 BUR, 1.25 mil (32 micron) gauge, 0.025 die gap at 150 lb/hr.

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