

Petrothene®

NA951

Low Density Polyethylene

Film Extrusion Grade

Melt Index 2.2 Density 0.919

Applications

PETROTHENE NA951 is a series of homopolymer resins specially designed for industrial and consumer packaging and liner and bag applications. NA951 has an excellent balance of processability, toughness and drawdown.

Regulatory Status

The basic resin NA951 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 NA951 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	Nominal 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 @ Break MD (TD)	3,600 (2,500)	psi	D 882
Elongation, MD (TD)	250 (520)	%	D 882
1% 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			
	NA951000	NA95098	
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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