

Petrothene

NA951000

Low Density Polyethylene

Film Extrusion Grade

Melt Index: 2.2 Density: 0.920



Applications

Petrothene NA951000 is a low density homopolymer resin selected by customers for use in industrial and consumer packaging as well as liner and bag applications. NA951000 has an excellent balance of processability, toughness and drawdown and does not contain slip or antiblock.

Regulatory Status

NA951000 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 NA951000 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	2.2	g/10 min	D1238
Base Resin Density	0.920	g/cc	D1505
Vicat Softening Point	90	°C	D1525
Film¹			
Dart Drop Impact Strength, F ₅₀	100	g	D1709
Tensile Strength @ Break MD (TD)	3,600 (2,500)	psi	D882
Elongation, MD (TD)	250 (520)	%	D882
1% Secant Modulus, MD (TD)	28,500 (33,000)	psi	E111
Elmendorf Tear Strength, MD (TD)	320 (100)	g	D1922
Molding*			
Tensile Strength	1,970	psi	D638
Elongation @ Break	600	%	D638
Product			
Product	NA951000		
Slip (ppm)	None		
Antiblock (ppm)	None		

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.

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

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