Petrothene

NA967000

Low Density Polyethylene
Film Extrusion, Blow Molding Grade
Melt Index: 1.5 Density: 0.919

Applications

Petrothene NA967000 is a low density polyethylene resin selected by customers for blown film, blow molding, general purpose and industrial packaging applications. NA967000 exhibits good processing characteristics and impact strength.

Regulatory Status

NA967000 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 NA967000 can be made only when the end use applications, required properties and processing equipment are known.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	1.5	g/10 min	D1238
Density	0.919	g/cm³	D1505
Film*			
Dart Drop Impact Strength, F_{50}	150	g	D1709
Tensile Strength, MD (TD)	3,600 (2,600)	psi	D882
Elongation, MD (TD)	220 (520)	%	D882
1% Secant Modulus, MD (TD)	26,000 (33,000)	psi	E111
Elmendorf Tear Strength, MD (TD)	390 (100)	g	D1922
Molding			
Tensile Strength	1,500	psi	D638
Elongation @ Break	600	%	D638
Vicat Softening Point	90	°C	D1525
Low Temperature Brittleness	<-76	°C	D746
Notched LTB	0.5	°C	D746
Hardness, Shore D	51		D2240

Products	NA967000
Slip (ppm)	None
Antiblock (ppm)	None

* Data obtained from film produced on 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.

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