Petrothene

NA952

Low Density Polyethylene
Film Extrusion Grade
Melt Index 2.0 Density 0.9185

Applications

Petrothene NA952 is a series of homopolymer resins especially designed for industrial and consumer packaging, and liner and bag applications. NA952 has an excellent balance of processability, toughness and drawdown.

Regulatory Status

The NA952 basic resin 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 NA952 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	2.0	g/10 min	D 1238
Base Resin Density	0.9185	g/cc	D 1505
Vicat Softening Point	85	°C	D 1525
Film[1]			
Dart Drop Impact Strength, F_{50}	110	g	D 1709
Tensile Strength, MD (TD)	3,200 (2,300)	psi	D 882
Elongation, MD (TD)	200 (500)	%	D 882
1% Secant Modulus, MD (TD)	26,500 (32,000)	psi	E 111
Elmendorf Tear Strength, MD (TD)	350 (70)	g	D 1922
Molding*			
Tensile Strength	1,800	psi	D 638
Elongation @ Break	650	%	D 638

Products	**NA952000**	**NA952094**
Slip (ppm)	0	500
Antiblock (ppm)	0	4,500

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. the lowest temperature at which the material may be used.

Equistar Chemicals, LP
1221 McKinney, Suite 700
P. O. Box 2583
Houston, Texas 77252-2583
(800) 615-8999
www.lyondellbasell.com