Petrothene

NA952000

Low Density Polyethylene
Blow Molding and Injection Molding Grade
Melt Index: 2.0 Density: 0.919

Applications

Petrothene NA952000 is a low density polyethylene for use in both blow molding and injection molding applications. This resin exhibits excellent toughness, good softness and good dimensional stability. NA952000 is selected by customers for use in injection molding caps, closures, blow molding squeeze bottles and other specialty applications.

Regulatory Status

NA952000 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 NA952 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	2.0	g/10 min.	D1238
Density	0.919	g/cc	D1505
Tensile Strength @ Break[1]	1,570 (10.8)	psi (MPa)	D638
Tensile Strength @ Yield[1]	1,500 (10)	psi (MPa)	D638
Elongation @ Break[1]	650	%	D638
1% Secant Modulus[2]	35,000 (241)	psi (MPa)	D790
2% Secant Modulus[2]	31,400 (216)	psi (MPa)	D790
Vicat Softening Point	188 (87)	°F (°C)	D1525
Hardness, Shore D	49		D2280
Low Temperature Brittleness, F_{50}[3]	-58 (-50)	°F (°C)	D746

[1] Crosshead Speed – 20 in/min
[2] Crosshead Speed - ½ in/min

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