

Petrothene®

NA952000

Low Density Polyethylene

Blow Molding and Injection Molding Grade

Melt Index 2.0 Density 0.9185

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 recommended for injection molding caps, closures, blow molding squeeze bottles and other specialty applications.

Regulatory Status

NA952000 meets the requirements of the Food and Drug Administration, Code of Federal Regulations, 21CFR Section 177.1520. This regulation allows the use of this olefin polymer in "articles or components of articles intended for use in contact with food." Contact your Equistar sales representative for more information regarding the suitability of specific products for specific applications.

Processing Techniques

Specific recommendations for processing NA952000 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
Density	0.9185	g/cc	D 1505
Tensile Strength @ Break ¹	1,570 (10.8)	psi (MPa)	D 638
Tensile Strength @ Yield ¹	1,500 (10)	psi (MPa)	D 638
Elongation @ Break ¹	650	%	D 638
1% Secant Modulus ²	35,000 (241)	psi (MPa)	D 790
2% Secant Modulus ²	31,400 (216)	psi (MPa)	D 790
Vicat Softening Point	188 (87)	°F (°C)	D 1525
Hardness, Shore D	49		D 2280
Low Temperature Brittleness, F ₅₀ ³	-58 (-50)	°F (°C)	D 746

¹ Crosshead Speed – 20 in/min

² Crosshead Speed - 1/2 in/min

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