

Petrothene

NA860

Low Density Polyethylene

Injection Molding Grade

Melt Index: 24 Density: 0.921



Applications

Petrothene NA860 is a series of medium flow, low density polyethylene resins for the injection molding of caps, closures and other specialty applications. These resins exhibit balanced toughness, softness, dimensional stability and processability.

Regulatory Status

The base resin NA860 meets the requirements of the Food and Drug Administration, 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 NA860 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	24	g/10 min	D1238
Density	0.921	g/cc	D1505
Tensile Strength @ Break ¹	1,230 (9)	psi (MPa)	D638
Tensile Strength @ Yield ¹	1,770 (12)	psi (MPa)	D638
Elongation @ Yield ¹	14	%	D638
1% Secant Modulus ²	32,000 (220)	psi (MPa)	D790
2% Secant Modulus ²	26,000 (180)	psi (MPa)	D790
Vicat Softening Point	198 (92)	°F (°C)	D1525
Hardness, Shore D	44		D2280
Low Temperature Brittleness, F ₅₀ ³	-31 (-35)	°F (°C)	D746

Product	NA860008	NA860241
Slip (ppm)	None	1,800

¹ Crosshead Speed – 20 in/min

² Crosshead Speed - ½ in/min

³ Test method does not necessarily indicate the lowest temperature at which the material may be used.

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