

Petrothene

NA206000

Low Density Polyethylene

Injection Molding Grade

Melt Index: 13.5 Density: 0.918



Applications

Petrothene NA206000 is selected by customers for specialty molding applications in closures, toys and automotive areas where a balance of softness and toughness, with good processability and excellent dimensional stability is desired.

Regulatory Status

NA206000 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 the processing of NA206000 can be made only when the end use application, required properties and the processing equipment are known.

Suggested Start-up Conditions

Extruder Zone	Rear	Center	Front	Nozzle
Cylinder Temperature	325°F	350°F	350°F	350°F

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	13.5	g/10 min	D1238
Density	0.918	g/cc	D1505
Tensile Strength @ Break ¹	1,440	psi	D638
Tensile Strength @ Yield ¹	1,450	psi	D638
Elongation @ Yield ¹	15	%	D638
1% Secant Modulus ²	30,000	psi	D790
2% Secant Modulus ²	27,000	psi	D790
Vicat Softening Point	86	°C	D1525
Hardness, Shore D	54		D2240
Low Temperature Brittleness, F ₅₀ ³	-74	°C	D746

¹ Crosshead Speed – 20 in/min

² Crosshead Speed - ½ in/min

³ Test method has been found useful for specification purposes, but 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.

See Page 2 for Additional Information

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Equistar Chemicals, LP
Basell Sales & Marketing Company B.V.
Basell Asia Pacific Limited
Basell International Trading FZE
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Users should review the applicable Material Safety Data Sheet before handling the product.

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