

Petrothene

NA831000

Low Density Polyethylene
Injection Molding Grade

Melt Index: 9.0 Density: 0.919



Applications

Petrothene NA831000 resin exhibits high stress crack resistance and low temperature brittleness. Typical applications include housewares, containers and industrial parts.

Regulatory Status

NA831000 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. For more information, please contact your Equistar product safety representative.

Processing Techniques

Specific recommendations for processing NA831000 can only be made when the processing conditions, equipment and end use 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	9.0	g/10 min	D1238
Density	0.919	g/cc	D1505
Tensile Strength @ Break	1,230 (9)	psi (MPa)	D638
Tensile Strength @ Yield	1,300 (9)	psi (MPa)	D638
Elongation @ Yield	14	%	D638
Flexural Modulus	37,000	psi	D790
Hardness Shore D	48		D2240
Heat Deflection Temperature @ 66 psi	40	°C (°F)	D648
Low Temperature Brittleness, F ₅₀	-65 (-85)	°C (°F)	D746
Vicat Softening Point	85 (184)	°C (°F)	D1525

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