

Petrothene

NA814000

Low Density Polyethylene

Blow Molding Grade

Melt Index: 1.3 Density: 0.919



Applications

Petrothene NA814000 is a low density homopolymer resin selected by customers for a wide variety of blow molding applications. This resin exhibits excellent gloss, an excellent balance of physical properties and good processability.

Regulatory Status

NA814000 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

NA814000 provides excellent processability and flow properties, yielding improved output rates and part appearance. This resin can be molded over a wide range of melt temperatures with a recommended range of 350° to 500°F. Specific recommendations for processing NA814000 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	1.3	g/10 min	D1238
Density	0.919	g/cc	D1505
Tensile Strength @ Break	1,700	psi	D638
Elongation @ Break	>600	%	D638
Flexural Modulus	33,000	psi	D790
Low Temperature Brittleness, F ₅₀	<-76	°C	D746
Heat Deflection Temperature @ 66 psi	40	°C	D648
Vicat Softening Point	90	°C	D1525
Hardness, Shore D	48		D2240

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