

Technical Data Sheet

Petrothene NA814000



Low Density Polyethylene

Product Description

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.

Application	Bottles and Vials; Bottles For Consumer Goods; Bottles for Industrial Use; Caps & Closures; Clear Containers; Opaque Containers
Market	Rigid Packaging
Processing Method	Extrusion Blow Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	1.3	g/10 min	1.3	g/10 min	ASTM D1238
Density, (23 °C)	0.919	g/cm ³	0.919	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	33000	psi	228	MPa	ASTM D790
Tensile Strength at Break	1700	psi	11.7	MPa	ASTM D638
Tensile Elongation at Break	>600	%	>600	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	48		48		ASTM D2240
Thermal					
Vicat Softening Temperature	194	°F	90	°C	ASTM D1525
Low Temperature Brittleness, F ₅₀	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	104	°F	40	°C	ASTM D648