

Technical Data Sheet

Petrothene NA324009

Low Density Polyethylene

Product Description

Petrothene NA324009 is a medium density homopolymer resin selected by customers for blow molding applications. NA324009 provides good clarity, toughness and processability. Typical applications include flexible containers, squeeze bottles and toys.

Application	Sports, Leisure & Toys
Market	Flexible Packaging; Rigid Packaging
Processing Method	Blown Film; Cast Film; Extrusion Blow Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	3.0	g/10 min	3.0	g/10 min	ASTM D1238
Density, (23 °C)	0.931	g/cm ³	0.931	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	56000	psi	386	MPa	ASTM D790
Tensile Strength at Break	2200	psi	15.2	MPa	ASTM D638
Tensile Elongation at Break	>500	%	>500	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	59		59		ASTM D2240
Thermal					
Vicat Softening Temperature	221	°F	105	°C	ASTM D1525
Low Temperature Brittleness, F ₅₀	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	127	°F	53	°C	ASTM D648