

Technical Data Sheet

Petrothene NA860008



Low Density Polyethylene

Product Description

Petrothene NA860008 is a medium flow, low density polyethylene resin used for injection molding of caps, closures and other specialty applications. This resin exhibits balanced toughness, softness, dimensional stability and processability.

Application	Caps & Closures
Market	Rigid Packaging
Processing Method	Injection Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	24	g/10 min	24	g/10 min	ASTM D1238
Density, (23 °C)	0.921	g/cm ³	0.921	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus					
(1% Secant)	32000	psi	220	MPa	ASTM D790
(2% Secant)	26000	psi	180	MPa	ASTM D790
Tensile Strength at Break	1230	psi	9	MPa	ASTM D638
Tensile Strength at Yield	1770	psi	12	MPa	ASTM D638
Tensile Elongation at Yield	14	%	14	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	44		44		ASTM D2240
Thermal					
Vicat Softening Temperature	198	°F	92	°C	ASTM D1525
Low Temperature Brittleness, F ₅₀	-31	°F	-35	°C	ASTM D746