

Technical Data Sheet

Petrothene NA870252



Low Density Polyethylene

Product Description

Petrothene NA870252 exhibits an excellent balance of toughness and softness with excellent dimensional stability. This resin contains a mold release agent and displays excellent part ejection properties. Typical applications include caps and closures, housewares, toys, containers and novelty items.

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)	38	g/10 min	38	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)	33000	psi	230	MPa	ASTM D790
(2% Secant)	27000	psi	190	MPa	ASTM D790
Tensile Strength at Break	1300	psi	9	MPa	ASTM D638
Tensile Strength at Yield	1850	psi	13	MPa	ASTM D638
Tensile Elongation at Yield	13	%	13	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	41		41		ASTM D2240
Thermal					
Vicat Softening Temperature	187	°F	86	°C	ASTM D1525
Low Temperature Brittleness, F ₅₀	-13	°F	-25	°C	ASTM D746