

Technical Data Sheet

Petrothene NA270001

Low Density Polyethylene

Product Description

Petrothene NA270001 is a high flow, low density polyethylene resin selected by customers for use in the injection molding of caps, closures, other specialty applications or cast film. NA270001 is also used in wire & cable applications. NA270001 exhibit an excellent balance of toughness, softness, dimensional stability and processability.

Application	Carpet Backing; Wire & Cable
Market	Rigid Packaging; Wire & Cable
Processing Method	Injection Molding; Wire & Cable

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	70	g/10 min	70	g/10 min	ASTM D1238
Mechanical					
Flexural Modulus					
(1% Secant)	27000	psi	186	MPa	ASTM D790
(2% Secant)	24000	psi	165	MPa	ASTM D790
Tensile Strength at Break	1120	psi	8	MPa	ASTM D638
Tensile Strength at Yield	1650	psi	11	MPa	ASTM D638
Tensile Elongation at Yield	11	%	11	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	47		47		ASTM D2240