

Technical Data Sheet

Petrothene NA271009

Low Density Polyethylene

Product Description

Petrothene NA271009 is a medium density polyethylene resin selected by customers for overwrap film and other films requiring good stiffness and optics. NA271009 exhibits good film optics and high stiffness.

Application	Bags & Pouches; Food Packaging Film; Lamination Film; Secondary Packaging
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	1.2	g/10 min	1.2	g/10 min	ASTM D1238
Density, (23 °C)	0.930	g/cm ³	0.930	g/cm ³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	70	g	70	g	ASTM D1709
Tensile Strength at Break					
MD	3900	psi	26.9	MPa	ASTM D882
TD	3300	psi	22.8	MPa	ASTM D882
Tensile Elongation at Break					
MD	350	%	350	%	ASTM D882
TD	620	%	620	%	ASTM D882
1% Secant Modulus					
MD	46000	psi	317	MPa	ASTM D882
TD	54000	psi	372	MPa	ASTM D882
Elmendorf Tear Strength					
MD	185	g	185	g	ASTM D1922
TD	255	g	255	g	ASTM D1922
Optical					
Haze	7.5	%	7.5	%	ASTM D1003
Gloss, (45°)	62		62		ASTM D2457
Additive					
Slip	None		None		LYB Method
Antiblock	None		None		LYB Method