

Petrothene

NA271009

Medium Density Polyethylene

Film Extrusion Grade

Melt Index: 1.2 Density: 0.930



Applications

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

Regulatory Status

NA271009 meets the requirements of the Food and Drug Administration regulation, 21 CFR 177.1520. This regulation allows the use of this olefin polymer "... in articles or components of articles intended for use in contact with food..." Specific limitations or conditions of use may apply. Contact your Equistar product safety representative for more information.

Processing Techniques

Specific recommendations for processing NA271009 can be made only when the end use applications, required properties and processing equipment are known.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	1.2	g/10 min	D1238
Density	0.930	g/cc	D1505
Film*			
Haze	7.5	%	D1003
Gloss, 45°	62		D2457
Dart Drop Impact Strength, F ₅₀	70	g	D1709
Tensile Strength @ Break, MD (TD)	3,900 (3,300)	psi	D882
1% Secant Modulus, MD (TD)	46,000 (54,000)	psi	D882
Elongation, MD (TD)	350 (620)	%	D882
Elmendorf Tear Strength, MD (TD)	185 (255)	g	D1922
Product			
NA271009			
Slip (ppm)	None		
Antiblock (ppm)	None		

* Data obtained from 1.25 mil film produced on a 2" extruder with a 4" die, 385°F (196°C) melt extrusion temperature, 2.2:1 BUR, 0.025" die gap at 70 lb/hr.