

Technical Data Sheet

Petrothene NA336149

Low Density Polyethylene

Product Description

Petrothene NA336149 is a low density homopolymer resin selected by customers for applications that require thin gauge film constructions. NA336149 is known for its consistency, excellent drawdown and processability.

Application	Bags & Pouches; Can Liners; Clarity Film; Film Wrap; Food Packaging Film; Liner Film
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)	6.5	g/10 min	6.5	g/10 min	ASTM D1238
Density, (23 °C)	0.920	g/cm ³	0.920	g/cm ³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	90	g	90	g	ASTM D1709
Tensile Strength at Break					
MD	2500	psi	17.2	MPa	ASTM D882
TD	2020	psi	13.9	MPa	ASTM D882
Tensile Elongation at Break					
MD	225	%	225	%	ASTM D882
TD	450	%	450	%	ASTM D882
1% Secant Modulus					
MD	21200	psi	146	MPa	ASTM D882
TD	24000	psi	165	MPa	ASTM D882
Elmendorf Tear Strength					
MD	350	g	350	g	ASTM D1922
TD	150	g	150	g	ASTM D1922
Thermal					
Vicat Softening Temperature	185	°F	85	°C	ASTM D1525
Optical					
Haze	8	%	8	%	ASTM D1003
Gloss, (45°)	62		62		ASTM D2457
Additive					
Slip	1350	ppm	1350	ppm	LYB Method
Antiblock	4000	ppm	4000	ppm	LYB Method