

Technical Data Sheet

Petrothene NA324013

Low Density Polyethylene



Product Description

Petrothene NA324013 is a low density homopolymer resin selected by customers for overwrap packaging and household film. NA324013 provides excellent optical properties and good stiffness for improved machineability.

Application	Film Wrap
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)	3.0	g/10 min	3.0	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.931	g/cm ³	0.931	g/cm ³	ASTM D1505
Product Density, (23 °C)	0.931	g/cm ³	0.931	g/cm ³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	62	g	62	g	ASTM D1709
Tensile Strength at Break					
MD	3400	psi	23.4	MPa	ASTM D882
TD	2250	psi	15.5	MPa	ASTM D882
Tensile Elongation at Break					
MD	410	%	410	%	ASTM D882
TD	420	%	420	%	ASTM D882
1% Secant Modulus					
MD	47000	psi	324	MPa	ASTM D882
TD	58000	psi	400	MPa	ASTM D882
Optical					
Haze	6.8	%	6.8	%	ASTM D1003
Gloss, (60°)	68		68		ASTM D2457
Additive					
Slip	None		None		LYB Method
Antiblock	None		None		LYB Method

Product	Product Density(g/cm ³)	Slip(ppm)	Antiblock (ppm)
NA324013	0.931	None	None
NA324244	0.934	1600	6000



Notes

Data obtained from 1.25 mil (32 micron) film produced on a blown film line with a 8" (203 mm) die, 375°F (191°C) melt temperature, 2:1 BUR, 0.025" die gap at 100 lbs/hr.

These are typical property values not to be construed as specification limits.

