

Technical Data Sheet



Petrothene NA324244

Low Density Polyethylene

Product Description

Petrothene NA324244 is a low density homopolymer resin selected by customers for overwrap packaging and household film. NA324244 provides excellent optical properties and good stiffness for improved machineability.

Regulatory Status

For regulatory compliance information, see Petrothene NA324244 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
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/cm³	0.931	g/cm³	ASTM D1505
Product Density, (23 °C)	0.934	g/cm³	0.934	g/cm³	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
As measured on NA324013.					
Gloss, (60°)	68		68		ASTM D2457
As measured on NA324013.					
Additive					
Slip	1600	ppm	1600	ppm	LYB Method
Antiblock	6000	ppm	6000	ppm	LYB Method



Product	Product Density(g/cm³)	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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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