Technical Data Sheet

Petrothene NA373242

Low Density Polyethylene

Product Description

Petrothene NA373242 is a homopolymer resin selected by customers for use in household film and other applications that require high clarity, good impact strength, and low COF. NA373242 is also selected by customers for use in profile extrusion.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA373242 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Bags & Pouches; Clarity Film; Film Wrap; 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)	3.0	g/10 min	3.0	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.924	g/cm³	0.924	g/cm³	ASTM D1505
Product Density, (23 °C)	0.924	g/cm³	0.924	g/cm³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	100	g	100	g	ASTM D1709
Tensile Strength at Break					
MD	2800	psi	19.3	MPa	ASTM D882
TD	2400	psi	16.5	MPa	ASTM D882
Tensile Strength at Yield					
MD	1700	psi	12.4	MPa	ASTM D882
TD	1800	psi			ASTM D882
Tensile Elongation at Break					
MD	360	%	360	%	ASTM D882
TD	500	%	500	%	ASTM D882
1% Secant Modulus					
MD	30000	psi	207	MPa	ASTM D882
TD	33500	psi	231	MPa	ASTM D882
Elmendorf Tear Strength					
MD	320	g	320	g	ASTM D1922
TD	300	g	300	g	ASTM D1922
Optical					
Haze	9	%	9	%	ASTM D1003
Gloss	73		73		ASTM D2457
Additive					
Slip	3900	ppm	3900	ppm	LYB Method

Antiblock	None	None	LYB Method

Product	Product Density(g/cm³)	Slip(ppm)	Antiblock (ppm)
NA373242	0.924	3900	None
NA373244	0.927	1600	6000

Notes

Data obtained from 2.0 mil (51 micron) film produced on a blown film line with a 4" (102 mm) die, 370 °F (188 °C) melt temperature, 2.5:1 BUR, 0.025" die gap at 60 lbs/hr.

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