Technical Data Sheet

Petrothene NA951000

Low Density Polyethylene

Product Description

Petrothene NA951000 is a low density homopolymer resin selected by customers for use in industrial and consumer packaging as well as liner and bag applications. NA951000 has an excellent balance of processability, toughness and drawdown and does not contain slip or antiblock.

Application	Agriculture Film; Bags & Pouches; Bottles and Vials; Bottles For Consumer Goods; Bottles for Industrial Use; Can Liners; Caps & Closures; Clear Containers; Film Wrap; Food Packaging Film; Lamination Film; Liner Film; Opaque Containers; Secondary Packaging; Surface Protection Film
Market	Flexible Packaging; Rigid Packaging
Processing Method	Blown Film; Cast Film; Extrusion Blow Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	2.2	g/10 min	2.2	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.920	g/cm³	0.920	g/cm³	ASTM D1505
Mechanical					
Tensile Strength	1970	psi	13.6	MPa	ASTM D638
Tensile Elongation at Break	600	%	600	%	ASTM D638
Film					
Dart Drop Impact Strength, F50	100	g	100	g	ASTM D1709
Tensile Strength at Break					
MD	3600	psi	24.8	MPa	ASTM D882
TD	2500	psi	17.2	MPa	ASTM D882
Tensile Elongation at Break					
MD	250	%	250	%	ASTM D882
TD	520	%	520	%	ASTM D882
1% Secant Modulus					
MD	28500	psi	197	MPa	ASTM D882
TD	33000	psi	228	MPa	ASTM D882
Elmendorf Tear Strength					
MD	320	g	320	g	ASTM D1922
TD	100	g	100	g	ASTM D1922
Thermal					
Vicat Softening Temperature	194	°F	90	°C	ASTM D1525
Additive					
Slip	None		None		LYB Method

Antiblock	None	None	LYB Method

Notes

Mechanical data derived from Type IV specimen, 75 mil plaque @ 20" per minute.

Data obtained from 1.25 mil (32 micron) film produced on a blown film line with a 8" (203 mm) die, 350°F (177°C) melt temperature, 2:1 BUR, 0.025" die gap at 150 lbs/hr.

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