

Technical Data Sheet

Petrothene NA272130

Low Density Polyethylene

Product Description

Petrothene NA272130 is a medium density polyethylene resin selected by customers for overwrap film applications. NA272130 exhibits good film optics and high stiffness.

Application	Bags & Pouches; Food Packaging Film; Lamination Film; Secondary Packaging; Shrink 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)	1.6	g/10 min	1.6	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.930	g/cm ³	0.930	g/cm ³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	90	g	90	g	ASTM D1709
Tensile Strength at Break					
MD	4100	psi	28.3	MPa	ASTM D882
TD	2700	psi	18.6	MPa	ASTM D882
Tensile Strength at Yield					
MD	2100	psi	14.5	MPa	ASTM D882
TD	2300	psi	15.9	MPa	ASTM D882
Tensile Elongation at Break					
MD	350	%	350	%	ASTM D882
TD	640	%	640	%	ASTM D882
1% Secant Modulus					
MD	43000	psi	296	MPa	ASTM D882
TD	54000	psi	372	MPa	ASTM D882
Elmendorf Tear Strength					
MD	150	g	150	g	ASTM D1922
TD	440	g	440	g	ASTM D1922
Optical					
Haze	9.0	%	9.0	%	ASTM D1003
As measured on NA272013X02 (no slip, no antiblock).					
Gloss	58		58		ASTM D2457
As measured on NA272013X02 (no slip, no antiblock).					
Additive					
Slip	None		None		LYB Method
Antiblock	None		None		LYB Method