

## Technical Data Sheet

**Petrothene NA321210**

Low Density Polyethylene

**Product Description**

*Petrothene* NA321 is a series of homopolymer low density polyethylene resins designed for film applications requiring premium clarity with strength and stiffness. NA321 is selected by customers for bread bags, light produce, food packaging, bubble wrap and other packaging films enhanced by clarity and sparkle. NA321 contains an antioxidant.

**Application** Clarity Film; Compounding; Film Wrap; Food Packaging Film; Lamination Film; Packaging Foam, and other Foam applications; Surface Protection Film

**Market** Compounding; Flexible Packaging

**Processing Method** Blown Film; Cast Film; Compounding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (190 °C/2.16 kg)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.9225	g/cm <sup>3</sup>	0.9225	g/cm <sup>3</sup>	ASTM D1505
Product Density, (23 °C)	0.9231	g/cm <sup>3</sup>	0.9231	g/cm <sup>3</sup>	ASTM D1505
<b>Film</b>					
Dart Drop Impact Strength, F50	130	g	130	g	ASTM D1709
Tensile Strength at Break					
MD	3000	psi	21	MPa	ASTM D882
TD	2700	psi	19	MPa	ASTM D882
Tensile Strength at Yield					
MD	1600	psi	11	MPa	ASTM D882
TD	1700	psi	12	MPa	ASTM D882
Tensile Elongation at Break					
MD	400	%	400	%	ASTM D882
TD	550	%	550	%	ASTM D882
1% Secant Modulus					
MD	32000	psi	220	MPa	ASTM D882
TD	35000	psi	240	MPa	ASTM D882
Elmendorf Tear Strength					
MD	300	g	300	g	ASTM D1922
TD	300	g	300	g	ASTM D1922
<b>Optical</b>					
Haze	5.8	%	5.8	%	ASTM D1003
Gloss	75		75		ASTM D2457
<b>Additive</b>					
Slip	750	ppm	750	ppm	LYB Method
Antiblock	1000	ppm	1000	ppm	LYB Method