

## Technical Data Sheet

### Petrothene NA204000

Low Density Polyethylene

#### Product Description

*Petrothene* NA204000 is selected by customers for use in both extrusion coating and injection molding applications. NA204000 is a high speed, lightweight coating resin for use with paper, films and other base stocks. This resin can be extruded at line speeds of 1200 ft/min or higher. Products made from materials coated with NA204000 typically include general-purpose flexible packaging and snack food packaging. NA204000 yields excellent adhesion and heat sealing characteristics and low neck-in. When NA204000 is used in injection molding applications, it exhibits an excellent balance of toughness and softness, with excellent dimensional stability. Typical injection molding applications include housewares, toys, containers and novelty items.

<b>Application</b>	Bags & Pouches; Caps & Closures; Colour Concentrates; Food Packaging Film; Lamination Film; Sealants
<b>Market</b>	Flexible Packaging; Rigid Packaging
<b>Processing Method</b>	Extrusion Coating; Injection Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (190 °C/2.16 kg)	7.0	g/10 min	7.0	g/10 min	ASTM D1238
Density, (23 °C)	0.918	g/cm <sup>3</sup>	0.918	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>					
Flexural Modulus, (1% Secant)	31900	psi	233	MPa	ASTM D790
Tensile Strength at Break	1730	psi	12.1	MPa	ASTM D638
Tensile Strength at Yield	1430	psi	10.1	MPa	ASTM D638
Tensile Elongation at Break	550	%	550	%	ASTM D638
Tensile Elongation at Yield	19	%	19	%	ASTM D638
<b>Hardness</b>					
Shore Hardness, (Shore D)	50		50		ASTM D2240
<b>Thermal</b>					
Vicat Softening Temperature	186	°F	86	°C	ASTM D1525
<b>Processing Parameters</b>					
Melt Temperature	<=625	°F	<=329	°C	