

## 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.

#### Regulatory Status

For regulatory compliance information, see *Petrothene* NA204000 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

<b>Status</b>	Commercial: Active
<b>Availability</b>	North America
<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)	30000	psi	207	MPa	ASTM D790
Tensile Strength at Break	1600	psi	11.0	MPa	ASTM D638
Tensile Strength at Yield	1500	psi	10.3	MPa	ASTM D638
Tensile Elongation at Break	550	%	550	%	ASTM D638
Tensile Elongation at Yield	17	%	17	%	ASTM D638
<b>Hardness</b>					
Shore Hardness, (Shore D)	50		50		ASTM D2240
<b>Thermal</b>					
Vicat Softening Temperature	183	°F	84	°C	ASTM D1525
<b>Processing Parameters</b>					
Melt Temperature	<=625	°F	<=329	°C	

#### Notes

Tensile properties were run with a crosshead speed of 20 inches/min or 500 mm/min.

Flexural Modulus properties were run with a crosshead speed of 0.5 inches/min or 12.5 mm/min.

Mechanical tensile properties were run on a Type IV specimen.

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

### Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

### Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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Users should review the applicable Safety Data Sheet before handling the product.

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- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

The product(s) may not be used in:

- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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