

Technical Data Sheet

Petrothene NA219000

Low Density Polyethylene



Product Description

Petrothene NA219000 is a high speed, lightweight-coating resin selected by customers for use with paper, films and other base stocks. This resin can be extrusion coated at line speeds of 1,200 ft/min or higher. Products made from materials coated with NA219000 typically include flexible packaging, milk cartons, industrial papers and foil mounting, single-ply bags, pouch bags, board trays, fiber drums, corrugated boxes and fiberboard containers.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA219000 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Bags & Pouches; Colour Concentrates; Food Packaging Film; Lamination Film; Sealants
Market	Flexible Packaging
Processing Method	Extrusion Coating

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	10	g/10 min	10	g/10 min	ASTM D1238
Density, (23 °C)	0.923	g/cm ³	0.923	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	31200	psi	215	MPa	ASTM D790
Tensile Strength at Break	1700	psi	11.7	MPa	ASTM D638
Tensile Strength at Yield	1870	psi	12.9	MPa	ASTM D638
Tensile Elongation at Break	230	%	230	%	ASTM D638
Tensile Elongation at Yield	13	%	13	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	51		51		ASTM D2240
Thermal					
Vicat Softening Temperature	203	°F	95	°C	ASTM D1525
Processing Parameters					
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.

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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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- (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.

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- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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