Technical Data Sheet

Petrothene NA217000

Low Density Polyethylene

Product Description

Petrothene NA217000 is a high speed, lightweight coating resin selected by customers for use with paper, films and other base stocks. This resin can be extruded at line speeds of 1500 ft/min or higher. Products made from materials coated with NA217000 typically include flexible packaging, milk cartons, industrial papers and foil mounting, single-ply bags, pouch bags, cup stock, fiber drums, corrugated boxes and fiberboard containers.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA217000 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)	5.6	g/10 min	5.6	g/10 min	ASTM D1238
Density, (23 °C)	0.923	g/cm³	0.923	g/cm³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	40000	psi	276	MPa	ASTM D790
Tensile Strength at Break	1800	psi	12.4	MPa	ASTM D638
Tensile Strength at Yield	1880	psi	13.0	MPa	ASTM D638
Tensile Elongation at Break	550	%	550	%	ASTM D638
Tensile Elongation at Yield	13	%	13	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	53		53		ASTM D2240
Thermal					
Vicat Softening Temperature	198	°F	92	°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.

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.

This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:
(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.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

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