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/cm³	0.923	g/cm³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	45930	psi	317	MPa	ASTM D790
Tensile Strength at Break	1430	psi	9.8	MPa	ASTM D638
Tensile Strength at Yield	1830	psi	12.9	MPa	ASTM D638
Tensile Elongation at Break	200	%	200	%	ASTM D638
Tensile Elongation at Yield	14	%	14	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	51		51		ASTM D2240
Thermal					
Vicat Softening Temperature	201	°F	94	°C	ASTM D1525
Processing Parameters					
Melt Temperature	<=625	°F	<=329	°C	

Manufacturer website: https://www.lyondellbasell.com/en/

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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