

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/cm ³	0.923	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	48890	psi	337	MPa	ASTM D790
Tensile Strength at Break	1450	psi	10.0	MPa	ASTM D638
Tensile Strength at Yield	1840	psi	13.0	MPa	ASTM D638
Tensile Elongation at Break	190	%	190	%	ASTM D638
Tensile Elongation at Yield	14	%	14	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	53		53		ASTM D2240
Thermal					
Vicat Softening Temperature	201	°F	94	°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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