Technical Data Sheet

Petrothene NA217000X01

Low Density Polyethylene

Product Description

Petrothene NA217000X01 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 NA217000X01 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* NA217000X01 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial
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.