Technical Data Sheet

Petrothene NA216000

Low Density Polyethylene

Product Description

Petrothene NA216000 is a general purpose, heavy and medium weight coating resin at line speeds over 1,200 ft/min. It can be applied to paper, foil, cellophane, polyester film, and other base stocks by the conventional extrusion coating process. Products made from materials coated with NA216000 typically include flexible packaging, set-up cartons, food boards and other materials.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA216000 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)	3.7	g/10 min	3.7	g/10 min	ASTM D1238
Density, (23 °C)	0.923	g/cm³	0.923	g/cm³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	45360	psi	313	MPa	ASTM D790
Tensile Strength at Break	1690	psi	11.7	MPa	ASTM D638
Tensile Strength at Yield	1770	psi	12.7	MPa	ASTM D638
Tensile Elongation at Break	540	%	540	%	ASTM D638
Tensile Elongation at Yield	15	%	15	%	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	

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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