Technical Data Sheet

Petrothene NA205000

Low Density Polyethylene

Product Description

Petrothene NA205000 is an extrusion coating resin typically used for high-speed, light weight coating applications. The resin can be drawn to a low coating weight at line speeds in excess of 1,500 fpm with minimum neck-in and edge weave. It is selected by customers for flexible pouches, locker wraps, sugar pouches, industrial and multi-wall bags and laminations.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA205000 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Bags & Pouches; Caps & Closures; 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)	16	g/10 min	16	g/10 min	ASTM D1238
Density, (23 °C)	0.918	g/cm³	0.918	g/cm³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	32780	psi	230	MPa	ASTM D790
Tensile Strength at Break	1330	psi	9.2	MPa	ASTM D638
Tensile Strength at Yield	1450	psi	10.1	MPa	ASTM D638
Tensile Elongation at Break	410	%	410	%	ASTM D638
Tensile Elongation at Yield	18	%	18	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	56		56		ASTM D2240
Thermal					
Vicat Softening Temperature	184	°F	85	°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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