

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/cm ³	0.918	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	33400	psi	230	MPa	ASTM D790
Tensile Strength at Break	1520	psi	10.5	MPa	ASTM D638
Tensile Strength at Yield	1460	psi	10.1	MPa	ASTM D638
Tensile Elongation at Break	590	%	590	%	ASTM D638
Tensile Elongation at Yield	19	%	19	%	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	

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

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.