

Technical Data Sheet

Petrothene NA204000



Low Density Polyethylene

Product Description

Petrothene NA204000 is selected by customers for use in both extrusion coating and injection molding applications. NA204000 is a high speed, lightweight coating resin for use with paper, films and other base stocks. This resin can be extruded at line speeds of 1200 ft/min or higher. Products made from materials coated with NA204000 typically include general-purpose flexible packaging and snack food packaging. NA204000 yields excellent adhesion and heat sealing characteristics and low neck-in. When NA204000 is used in injection molding applications, it exhibits an excellent balance of toughness and softness, with excellent dimensional stability. Typical injection molding applications include housewares, toys, containers and novelty items.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA204000 [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; Rigid Packaging
Processing Method	Extrusion Coating; Injection Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	7.0	g/10 min	7.0	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)	30000	psi	207	MPa	ASTM D790
Tensile Strength at Break	1600	psi	11.0	MPa	ASTM D638
Tensile Strength at Yield	1500	psi	10.3	MPa	ASTM D638
Tensile Elongation at Break	550	%	550	%	ASTM D638
Tensile Elongation at Yield	17	%	17	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	50		50		ASTM D2240
Thermal					
Vicat Softening Temperature	183	°F	84	°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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