Technical Data Sheet

# *Petrothene* NA214000

Low Density Polyethylene

## Product Description

*Petrothene* NA214000 is a low density polyethylene resin selected by customers for high speed extrusion coating applications. This resin can be drawn down to medium coating weights at line speeds exceeding 1,500 fpm with minimum neck-in. NA214000 is typically used for applications including sugar pouches, industrial and multi-wall bags, treated and primed films and laminations.

## Regulatory Status

For regulatory compliance information, see *Petrothene* NA214000 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) | 10 | g/10 min | 10 | g/10 min | ASTM D1238 |
| Density, (23 °C) | 0.918 | g/cm³ | 0.918 | g/cm³ | ASTM D1505 |
| **Mechanical** | | | | | |
| Flexural Modulus, (1% Secant) | 32500 | psi | 230 | MPa | ASTM D790 |
| Tensile Strength at Break | 1550 | psi | 10.7 | MPa | ASTM D638 |
| Tensile Strength at Yield | 1460 | psi | 10.0 | MPa | ASTM D638 |
| Tensile Elongation at Break | 550 | % | 550 | % | ASTM D638 |
| Tensile Elongation at Yield | 19 | % | 19 | % | ASTM D638 |
| **Hardness** | | | | | |
| Shore Hardness, (Shore D) | 54 | | 54 | | ASTM D2240 |
| **Thermal** | | | | | |
| Vicat Softening Temperature | 185 | °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

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.



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