# Technical Data Sheet

## *Petrothene* NA217000

Low Density Polyethylene

### Product Description

*Petrothene* NA217000 is a high speed, lightweight coating resin selected by customers for use with paper, films and other base stocks. This resin can be extruded at line speeds of 1500 ft/min or higher. Products made from materials coated with NA217000 typically include flexible packaging, milk cartons, industrial papers and foil mounting, single-ply bags, pouch bags, cup stock, fiber drums, corrugated boxes and fiberboard containers.

### Regulatory Status

For regulatory compliance information, see *Petrothene* NA217000 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) | 5.6 | g/10 min | 5.6 | g/10 min | ASTM D1238 |
| Density, (23 °C) | 0.923 | g/cm³ | 0.923 | g/cm³ | ASTM D1505 |
| **Mechanical** | | | | | |
| Flexural Modulus, (1% Secant) | 48890 | psi | 337 | MPa | ASTM D790 |
| Tensile Strength at Break | 1450 | psi | 10.0 | MPa | ASTM D638 |
| Tensile Strength at Yield | 1840 | psi | 13.0 | MPa | ASTM D638 |
| Tensile Elongation at Break | 190 | % | 190 | % | ASTM D638 |
| Tensile Elongation at Yield | 14 | % | 14 | % | 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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