

Technical Data Sheet

Petrothene NA219000

Low Density Polyethylene



Product Description

Petrothene NA219000 is a high speed, lightweight-coating resin selected by customers for use with paper, films and other base stocks. This resin can be extrusion coated at line speeds of 1,200 ft/min or higher. Products made from materials coated with NA219000 typically include flexible packaging, milk cartons, industrial papers and foil mounting, single-ply bags, pouch bags, board trays, fiber drums, corrugated boxes and fiberboard containers.

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|--------------------------|-------------------------------------------------------------------------------------|
| 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) | 10 | g/10 min | 10 | g/10 min | ASTM D1238 |
| Density, (23 °C) | 0.923 | g/cm ³ | 0.923 | g/cm ³ | ASTM D1505 |
| Mechanical | | | | | |
| Flexural Modulus, (1% Secant) | 31200 | psi | 215 | MPa | ASTM D790 |
| Tensile Strength at Break | 1700 | psi | 11.7 | MPa | ASTM D638 |
| Tensile Strength at Yield | 1870 | psi | 12.9 | MPa | ASTM D638 |
| Tensile Elongation at Break | 230 | % | 230 | % | ASTM D638 |
| Tensile Elongation at Yield | 13 | % | 13 | % | ASTM D638 |
| Hardness | | | | | |
| Shore Hardness, (Shore D) | 51 | | 51 | | ASTM D2240 |
| Thermal | | | | | |
| Vicat Softening Temperature | 203 | °F | 95 | °C | ASTM D1525 |
| Processing Parameters | | | | | |
| Melt Temperature | <=625 | °F | <=329 | °C | |

