

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.

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| 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) | 32780 | psi | 230 | MPa | ASTM D790 |
| Tensile Strength at Break | 1330 | psi | 9.2 | MPa | ASTM D638 |
| Tensile Strength at Yield | 1450 | psi | 10.1 | MPa | ASTM D638 |
| Tensile Elongation at Break | 410 | % | 410 | % | ASTM D638 |
| Tensile Elongation at Yield | 18 | % | 18 | % | 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 | |