

Technical Data Sheet

Petrothene NA143063



Low Density Polyethylene

Product Description

Petrothene NA143063 is a homopolymer resin selected by customers for blown film. Typical applications include stiff liners. NA143063 exhibits good processability and clarity.

| | |
|--------------------------|--|
| Application | Bags & Pouches; Can Liners; Clarity Film; Film Wrap; Food Packaging Film; Lamination Film; Liner Film; Surface Protection Film |
| Market | Flexible Packaging |
| Processing Method | Blown Film; Cast Film |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|----------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| Physical | | | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 2.0 | g/10 min | 2.0 | g/10 min | ASTM D1238 |
| Density, (23 °C) | 0.922 | g/cm ³ | 0.922 | g/cm ³ | ASTM D1505 |
| Mechanical | | | | | |
| Tensile Strength | 1720 | psi | 11.9 | MPa | ASTM D638 |
| Tensile Elongation at Break | 650 | % | 650 | % | ASTM D638 |
| Film | | | | | |
| Dart Drop Impact Strength, F50 | 130 | g | 130 | g | ASTM D1709 |
| Tensile Strength at Break | | | | | |
| MD | 2800 | psi | 19.3 | MPa | ASTM D882 |
| TD | 2700 | psi | 18.6 | MPa | ASTM D882 |
| Tensile Strength at Yield | | | | | |
| MD | 1600 | psi | 11.0 | MPa | ASTM D882 |
| TD | 1650 | psi | 11.4 | MPa | ASTM D882 |
| Tensile Elongation at Break | | | | | |
| MD | 360 | % | 360 | % | ASTM D882 |
| TD | 540 | % | 540 | % | ASTM D882 |
| 1% Secant Modulus | | | | | |
| MD | 28000 | psi | 193 | MPa | ASTM D882 |
| TD | 31000 | psi | 214 | MPa | ASTM D882 |
| Elmendorf Tear Strength | | | | | |
| MD | 300 | g | 300 | g | ASTM D1922 |
| TD | 265 | g | 265 | g | ASTM D1922 |
| Thermal | | | | | |
| Vicat Softening Temperature | 199 | °F | 93 | °C | ASTM D1525 |
| Optical | | | | | |
| Haze | 7 | % | 7 | % | ASTM D1003 |
| Gloss, (45°) | 70 | | 70 | | ASTM D2457 |
| Additive | | | | | |
| Slip | 750 | ppm | 750 | ppm | LYB Method |
| Antiblock | 1500 | ppm | 1500 | ppm | LYB Method |