

Technical Data Sheet

Petrothene Select GS906071



Linear Low Density Polyethylene

Product Description

The *Petrothene* Select series of resins are high performance hexene, linear low density polyethylenes selected by customers for use in blown film applications that require superior strength and toughness. *Petrothene* Select GS906 has a melt index of 0.6 g/10 min which can contribute to films having very high dart impact as well as excellent melt strength during blown film fabrication.

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|--------------------------|--|
| Application | Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Lamination Film; Liner Film; Retail Carryout Bags; Shipping Sacks; Shrink Film |
| Market | Flexible Packaging |
| Processing Method | Blown Film |
| Attribute | Good Melt Strength; High Impact Resistance; Superior Tear Resistance |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|----------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| Physical | | | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 0.6 | g/10 min | 0.6 | g/10 min | ASTM D1238 |
| Base Resin Density, (23 °C) | 0.9165 | g/cm ³ | 0.9165 | g/cm ³ | ASTM D1505 |
| Product Density, (23 °C) | 0.9215 | g/cm ³ | 0.9215 | g/cm ³ | ASTM D1505 |
| Film | | | | | |
| Dart Drop Impact Strength, F50 | 650 | g | 650 | g | ASTM D1709 |
| Tensile Strength at Break | | | | | |
| MD | 9500 | psi | 65.5 | MPa | ASTM D882 |
| TD | 7000 | psi | 48.3 | MPa | ASTM D882 |
| Tensile Elongation at Break | | | | | |
| MD | 500 | % | 500 | % | ASTM D882 |
| TD | 700 | % | 700 | % | ASTM D882 |
| 1% Secant Modulus | | | | | |
| MD | 27000 | psi | 186 | MPa | ASTM D882 |
| TD | 29000 | psi | 200 | MPa | ASTM D882 |
| Elmendorf Tear Strength | | | | | |
| MD | 450 | g | 450 | g | ASTM D1922 |
| TD | 650 | g | 650 | g | ASTM D1922 |
| Additive | | | | | |
| Slip | None | | None | | LYB Method |
| Antiblock | 8000 | ppm | 8000 | ppm | LYB Method |
| Polymer Processing Aid | Present | | Present | | LYB Method |