

Osterlene® LLSH0917

Linear Low Density Polyethylene

Osterman & Company

Message:

LLSH0917 is a super strength hexene copolymer LLDPE film resin. This product has outstanding toughness properties, especially impact and tear strength, compared to other hexene polymers. It is stabilized for blown film extrusion and does not contain slip or antiblock, making it well suited for blown stretch wrap.

Osterlene LLSH0917 meets the requirements of the Food and Drug Administration, 21 CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations may apply. Contact your Osterman sales representative for more information.

| General Information | | | |
|---|-----------------------------|----------|-----------------|
| Features | High strength | | |
| | Copolymer | | |
| | hexene comonomer | | |
| | Impact resistance, good | | |
| | Good tear strength | | |
| | Good toughness | | |
| | Compliance of Food Exposure | | |
| Uses | Stretch winding | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Processing Method | Blow molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.917 | g/cm³ | Internal method |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.90 | g/10 min | ASTM D1238 |
| Films | Nominal Value | Unit | Test Method |
| Film Puncture Energy | 3.62 | J | Internal method |
| Film Puncture Force | 44.5 | N | Internal method |
| secant modulus | | | ASTM D882 |
| 1% secant, MD | 165 | MPa | ASTM D882 |
| 1% secant, TD | 186 | MPa | ASTM D882 |
| Tensile Strength | | | ASTM D882 |
| MD: Yield | 8.96 | MPa | ASTM D882 |
| TD: Yield | 9.65 | MPa | ASTM D882 |
| MD: Fracture | 62.7 | MPa | ASTM D882 |
| TD: Fracture | 51.0 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Fracture | 630 | % | ASTM D882 |
| TD: Fracture | 720 | % | ASTM D882 |

| | | | |
|-------------------------|---------------|------|-----------------|
| Dart Drop Impact | 330 | g | ASTM D1709A |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD | 460 | g | ASTM D1922 |
| TD | 600 | g | ASTM D1922 |
| Thermal | Nominal Value | Unit | Test Method |
| Melting Temperature | 125 | °C | Internal method |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°) | 37 | | ASTM D2457 |
| Haze | 17 | % | ASTM D1003 |

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