

Osterlene® LD-13.5-918

Low Density Polyethylene

Osterman & Company

Message:

LD-13.5-918 is an extrusion coating resin especially recommended for high-speed, light weight coating applications. The resin can be drawn to a 3 lb/ream coating weight at line speeds in excess of 1500 fpm with minimum neck-in and no edge weave.

LD-13.5-918 meets the requirements of the Food and Drug Administration, 21 CFR Section 177.1520 regulations. Specific limitations may apply.

| General Information | | | |
|-------------------------------------------|--------------------------------|-------------------|-------------|
| Features | Compliance of Food Exposure | | |
| Uses | Packaging | | |
| | Laminate | | |
| | Non-specific food applications | | |
| | Coating application | | |
| | Heavy packing bag | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Forms | Particle | | |
| Processing Method | Extrusion coating | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.918 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 14 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 50 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 11.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 500 | % | ASTM D638 |
| Flexural Strength | 207 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 28.9 | °C | ASTM D1525 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 310 - 327 | °C | |
| Extrusion instructions | | | |

It is recommended that a melt temperature of 590 - 620°F be used for light-weight coating applications in conjunction with electrostatic, flame or chemical priming to insure good adhesion. The maximum recommended melt temperature for LD-13.5-918 is 625°F.

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