

Flexirene® FG 30

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Flexirene FG 30 is a butene copolymer linear low density polyethylene (C4-LLDPE), with antioxidants, suitable for blown film extrusion.

Films manufactured with Flexirene FG 30 are characterised by an optimum balance between mechanical properties (stiffness) and sealing properties.

Main Application

Flexirene FG 30 is recommended for the production of general purpose film, automatic packaging and food packaging, especially when food is submitted to continuous cooking.

| General Information | | | |
|--|-------------------------------------|-------------------|-------------|
| Additive | Antioxidant | | |
| Features | Antioxidant | | |
| | Butene Comonomer | | |
| | Copolymer | | |
| | Food Contact Acceptable | | |
| | Good Heat Seal | | |
| | Good Stiffness | | |
| | Low Density | | |
| Uses | Film | | |
| | Food Packaging | | |
| | Packaging | | |
| Agency Ratings | EU Food Contact, Unspecified Rating | | |
| Forms | Pellets | | |
| Processing Method | Blown Film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.925 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.0 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Coefficient of Friction (vs. Itself - Dynamic, Blown Film) | > 0.50 | | ISO 8295 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 25 | µm | |
| Film Thickness - Recommended / Available | 15 to 50µm | | |
| Tensile Modulus | | | ISO 527-3 |
| 1% Secant, MD : 25 µm, Blown Film | 250 | MPa | |
| 1% Secant, TD : 25 µm, Blown Film | 290 | MPa | |
| Tensile Stress | | | ISO 527-3 |
| MD : Yield, 25 µm, Blown Film | 12.0 | MPa | |

| TD : Yield, 25 µm, Blown Film | 13.0 | MPa | |
|---|---------------|------|-----------------|
| MD : Break, 25 µm, Blown Film | 45.0 | MPa | |
| TD : Break, 25 µm, Blown Film | 33.0 | MPa | |
| Tensile Elongation | | | ISO 527-3 |
| MD : Break, 25 µm, Blown Film | 600 | % | |
| TD : Break, 25 µm, Blown Film | 800 | % | |
| Dart Drop Impact ¹ (25 µm, Blown Film) | 60 | g | ISO 7765-1 |
| Elmendorf Tear Strength ² | | | ISO 6383-2 |
| MD : 25.0 µm | 20.0 | kN/m | |
| TD : 25.0 µm | 180.0 | kN/m | |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | < -70.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 105 | °C | ISO 306/A |
| Melting Temperature | 124 | °C | Internal Method |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°, 25.0 µm, Blown Film) | 50 | | ASTM D2457 |
| Haze (25.0 µm, Blown Film) | 13 | % | ISO 14782 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 190 to 230 | °C | |
| NOTE | | | |
| 1. | F50 | | |
| 2. | Blown Film | | |

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