

Riblene® FF 29

Low Density Polyethylene

Versalis S.p.A.

Message:

Riblene FF 29 is a high molecular weight low density polyethylene (LDPE), suitable for blown film extrusion.

Riblene FF 29 is characterised by a good melt strength leading to a good bubble stability during extrusion.

Films manufactured by Riblene FF 29 are easily heat shrinkable and characterised by good mechanical properties.

Main Application

Riblene FF 29 is recommended for the production of shrink film for medium loads, for agricultural film and for blend.

| General Information | | | |
|--|-------------------------------------|-------------------|-------------|
| Features | Food Contact Acceptable | | |
| | Good Heat Shrinkability | | |
| | Good Melt Strength | | |
| | High Molecular Weight | | |
| | Low Density | | |
| Uses | Agricultural Applications | | |
| | Blending | | |
| | Film | | |
| | Shrink Wrap | | |
| Agency Ratings | EU Food Contact, Unspecified Rating | | |
| Forms | Pellets | | |
| Processing Method | Blown Film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.921 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.60 | 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 | 70 | µm | |
| Film Thickness - Recommended / Available | 50 to 150 µm | | |
| Tensile Modulus | | | ISO 527-3 |
| 1% Secant, MD : 70 µm, Blown Film | 160 | MPa | |
| 1% Secant, TD : 70 µm, Blown Film | 180 | MPa | |
| Tensile Stress | | | ISO 527-3 |
| MD : Yield, 70 µm, Blown Film | 10.0 | MPa | |
| TD : Yield, 70 µm, Blown Film | 10.0 | MPa | |
| MD : Break, 70 µm, Blown Film | 26.0 | MPa | |

| TD : Break, 70 μm, Blown Film | 25.0 | MPa | |
|---|---------------|------|-----------------|
| Tensile Elongation | | | ISO 527-3 |
| MD : Break, 70 μm, Blown Film | 400 | % | |
| TD : Break, 70 μm, Blown Film | 600 | % | |
| Dart Drop Impact ¹ (70 μm, Blown Film) | 310 | g | ISO 7765-1 |
| Elmendorf Tear Strength ² | | | ISO 6383-2 |
| MD : 70.0 μm | 20.0 | kN/m | |
| TD : 70.0 μm | 30.0 | kN/m | |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | < -75.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 91.0 | °C | ISO 306/A |
| Melting Temperature | 111 | °C | Internal Method |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°, 70.0 μm, Blown Film) | 40 | | ASTM D2457 |
| Haze (70.0 μm, Blown Film) | 18 | % | ISO 14782 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 180 to 210 | °C | |
| NOTE | | | |
| 1. | F50 | | |
| 2. | Blown Film | | |

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