

Riblene® FL 34 I

Low Density Polyethylene

Versalis S.p.A.

Message:

Riblene FL 34 I is a low density polyethylene (LDPE), additivated with slip and antiblocking agent, suitable for blown film extrusion. Riblene FL 34 I is characterised by a good balance between processability, mechanical and optical properties.

Films manufactured by Riblene FL 34 I are easily heat shrinkable.

Main Applications

Riblene FL 34 I is recommended for general blown film applications, for the production of low gauge film and shrink film and for blend.

Riblene FL 34 I thanks its properties is also recommended for the production of high purity film.

| General Information | | | |
|---|---|-------------------|-------------|
| Additive | Anti-caking agent slip agent | | |
| Features | High purity Low density smoothness Optical Anti-caking property Workability, good Good thermal shrinkage Compliance of Food Exposure | | |
| Uses | Blown Film Films Mixing Shrinkable film | | |
| Agency Ratings | European food contact, not rated | | |
| Forms | Particle | | |
| Processing Method | Blow film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.923 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.1 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Coefficient of Friction (Dynamic, Blown Film) | 0.11 | | ISO 8295 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 40 | µm | |
| Film Thickness - Recommended / Available | 25 to 80 µm | | |

| | | | |
|---|---------------|------|-----------------|
| Tensile Modulus | | | ISO 527-3 |
| 1% secant, MD: 40 µm, blown film | 180 | MPa | ISO 527-3 |
| 1% secant, TD: 40 µm, blown film | 190 | MPa | ISO 527-3 |
| Tensile Stress | | | ISO 527-3 |
| MD: Yield, 40 µm, blown film | 11.0 | MPa | ISO 527-3 |
| TD: Yield, 40 µm, blown film | 11.0 | MPa | ISO 527-3 |
| MD: Broken, 40 µm, blown film | 23.0 | MPa | ISO 527-3 |
| TD: Broken, 40 µm, blown film | 18.0 | MPa | ISO 527-3 |
| Tensile Elongation | | | ISO 527-3 |
| MD: Broken, 40 µm, blown film | 300 | % | ISO 527-3 |
| TD: Broken, 40 µm, blown film | 580 | % | ISO 527-3 |
| Dart Drop Impact ¹ (40 µm, Blown Film) | 130 | g | ISO 7765-1/A |
| Elmendorf Tear Strength ² | | | ISO 6383-2 |
| MD : 40.0 µm | 80.0 | kN/m | ISO 6383-2 |
| TD : 40.0 µm | 50.0 | kN/m | ISO 6383-2 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | < -75.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 93.0 | °C | ISO 306/A |
| Melting Temperature | 113 | °C | Internal method |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°, 40.0 µm, Blown Film) | 70 | | ASTM D2457 |
| Haze (40.0 µm, Blown Film) | 6.0 | % | ISO 14782 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 160 - 190 | °C | |
| NOTE | | | |
| 1. | F50 | | |
| 2. | Blown Film | | |

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