

## RIBLENE®

LDPE

## FF 34 I

Low density polyethylene

Riblene FF 34 I is a high molecular weight low density polyethylene (LDPE), additivated with slip and antiblocking agent, suitable for blown film extrusion.

Riblene FF 34 I is characterised by a good melt strength leading to a good bubble stability during extrusion. Films manufactured by Riblene FF 34 I are easily heat shrinkable and characterised by good mechanical properties.

### Main Applications

Riblene FF 34 I is recommended for the production of general packaging film, shoppers, lamination film and blend.

### Main Properties

| Resin Properties                | Value | Unit              | Test Method     |
|---------------------------------|-------|-------------------|-----------------|
| Melt Flow Rate (190 °C/2,16 kg) | 0,8   | g/10min           | ISO 1133        |
| Melt Flow Rate (190 °C/5 kg)    | -     | g/10min           | ISO 1133        |
| Melt Flow Rate (190 °C/21,6 kg) | -     | g/10min           | ISO 1133        |
| Density                         | 0,923 | g/cm <sup>3</sup> | ISO 1183        |
| Melting Point                   | 110   | °C                | Internal method |
| Brittleness temperature         | < -75 | °C                | ASTM D 746      |
| Vicat softening point (1 kg)    | 95    | °C                | ISO 306/A       |

| Film Properties *                      | Value    | Unit   | Test Method  |
|----------------------------------------|----------|--------|--------------|
| Tensile stress at yield MD             | 10       | MPa    | ISO 527-3    |
| Tensile stress at yield TD             | 11       | MPa    | ISO 527-3    |
| Tensile stress at break MD             | 22       | MPa    | ISO 527-3    |
| Tensile stress at break TD             | 19       | MPa    | ISO 527-3    |
| Elongation at break MD                 | 400      | %      | ISO 527-3    |
| Elongation at break TD                 | 600      | %      | ISO 527-3    |
| 1% Secant modulus MD                   | 180      | MPa    | ISO 527-3    |
| 1% Secant modulus TD                   | 190      | MPa    | ISO 527-3    |
| Elmendorf tear resistance MD           | 45       | N/mm   | ISO 6383-2   |
| Elmendorf tear resistance TD           | 60       | N/mm   | ISO 6383-2   |
| Impact resistance F50 (Dart Drop Test) | 180      | g      | ISO 7765-1/A |
| Dynamic coefficient of friction (COF)  | 0,11     | -      | ISO 8295     |
| Haze                                   | 9        | %      | ISO 14782    |
| Gloss, 45°                             | 60       | %      | ASTM D 2457  |
| Recommended film thickness             | 30 ÷ 120 | micron | -            |



## Processing notes

Riblene FF 34 I is easily processable using blown film technology. Melt temperature should be between 170 °C and 200 °C. Recommended thickness: 30 - 120 µm.

## Storage and Handling

Riblene FF 34 I is supplied in pellet form. This material may readily be conveyed and bulk fed through equipment designed for conventional pelletised polyethylene resin, provided the equipment is designed to prevent accumulation of the fines and dust particles that are contained in all polyethylene resins. These fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used be equipped with filters of adequate size, operated and maintained in such a manner to ensure that no leaks develop and earthed adequately. We further recommend that good housekeeping should be practised throughout your facility.

The product should be stored in dry conditions at temperatures below 50 °C and protected from sunlight. Improper storage can initiate degradation which results in odour generation, colour changes and can have negative effects on the physical properties of the product.

Before using this product it is recommended to read and understand the relevant Safety Data Sheet.

## Availability

Contact the Versalis sales office nearest to you regarding availability and your specific application requirements.

## Food Contact Status

Riblene FF 34 I complies with the rules and regulations of the European Union, as well as other countries, regarding the use of plastic materials in food contact applications. Certificates of compliance are available upon request.

