

**RIBLENE®**

LDPE

**FC 39**

Low density polyethylene

Riblene FC 39 is a high molecular weight low density polyethylene (LDPE) suitable for blown film extrusion. Riblene FC 39 is characterised by a high melt strength leading to a good bubble stability during extrusion.

Films manufactured by Riblene FC 39 are easily heat shrinkable and characterised by high rigidity, good mechanical and optical properties.

**Main applications**

Riblene FC 39 is recommended for the production of medium rigidity shrink film characterized by good clarity and gloss.

**Main properties**

| Resin Properties                 | Test method     | Unit              | Value  |
|----------------------------------|-----------------|-------------------|--------|
| Melt Flow Rate (190 °C/ 2.16 kg) | ISO 1133        | g/10min           | 0.25   |
| Density                          | ISO 1183        | g/cm <sup>3</sup> | 0.924  |
| Melting point                    | Internal method | °C                | 114    |
| Brittleness point                | ASTM D 746      | °C                | < - 75 |
| Vicat softening point (1 kg)     | ISO 306/A       | °C                | 93     |

| Film Properties *                      | Test method   | Unit   | Value    |
|----------------------------------------|---------------|--------|----------|
| Tensile stress at yield                | ISO 527-3 MD  | MPa    | 11       |
|                                        | ISO 527-3 TD  | MPa    | 11       |
| Tensile strenght at break              | ISO 527-3 MD  | MPa    | 28       |
|                                        | ISO 527-3 TD  | MPa    | 26       |
| Elongation at break                    | ISO 527-3 MD  | %      | 450      |
|                                        | ISO 527-3 TD  | %      | 600      |
| 1% Secant modulus                      | ISO 527-3 MD  | MPa    | 180      |
|                                        | ISO 527-3 TD  | MPa    | 190      |
| Elmendorf tear resistance              | ISO 6383-2 MD | N/mm   | 30       |
|                                        | ISO 6383-2 TD | N/mm   | 45       |
| Impact resistance F50 (Dart Drop Test) | ISO 7765-1    | g      | 320      |
| Dynamic coefficient of friction (COF)  | ISO 8295      |        | > 0.5    |
| Haze                                   | ISO 14782     | %      | 7.5      |
| Gloss, 45°                             | ASTM D 2457   | %      | 63       |
| Recommended film thickness             |               | micron | 40 ÷ 150 |

(\*) Typical value for a film extruded with BUR 1:3, thickness 70 µm. Actual properties are typical and may vary depending upon operating conditions and additive package.

## Processing conditions

Riblene FC 39 is easily processable using blown film technology. Melt temperature should be between 180°C and 220°C. Recommended thickness: 40 - 150 µm.

## Storage and handling

Riblene FC 39 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 be practised throughout your facility.

Stored in an airy and dry room, at temperatures between 20°C and 30°C, with no direct sunlight, the shelf life is about 18 months. However, before using this product, read and understand the relevant POLIMERI EUROPA Safety Data Sheet.

## Availability

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

## Food contact status

Riblene FC 39 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.

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**IMPORTANT:** please consult the relevant safety data sheet for more detailed information. The information and data presented herein are to the best of our knowledge true and accurate but no warranty or guarantee, expressed or implied, is made nor is any liability accepted with respect to the use of such information and data.

Polimeri Europa is available to provide the guaranteed values for each product on demand.