



RIBLENE® FC 40 F BCA

LDPE
Low density polyethylene bio circular attributed



SUSTAINABILITY

The product Riblene FC 40 F BCA 'Bio Circular attributed' is a highly sustainable LDPE produced using bionafta from renewable raw materials together with traditional raw materials. In order to attribute the sustainable feedstock component to the final product Versalis applies the Mass Balance approach, a recognized methodology that allows to trace the flow of materials along the value chain and to assign the sustainability characteristic of the raw material to the final product on a documentary basis. Riblene FC 40 F BCA provides the same chemical composition and physical-mechanical performance of the traditional grade, in addition is accompanied by a sustainability declaration that certifies the share of bio attributed product. It is a high molecular weight low density polyethylene (LDPE) suitable for blown film extrusion. The production of Riblene FC 40 F BCA allows to contribute to the circular economy, since the bionafta used derives from waste from industrial processing of organic substances (e.g. used cooking oils). Riblene FC 40 F BCA will be bio circular attributed for 100%. The exact amount of 'bio circular attributed' product will be reported in the sustainability certificate issued upon the delivery of the product.

MAIN PROPERTIES

| Resin Properties | Value | Unit | Test method |
|--|----------|-------------------|----------------|
| Melt Flow Rate (190 °C/2,16 kg) | 0,3 | 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 | 0,928 | g/cm ³ | ISO 1183 |
| Melting Point | 113 | °C | Metodo interno |
| Brittleness temperature | < -75 | °C | ASTM D 746 |
| Vicat softening point (1 kg) | 102 | °C | ISO 306/A |
| Film Properties * | Value | Unit | Test method |
| Tensile stress at yield MD | 12 | MPa | ISO 527-3 |
| Tensile stress at yield TD | 12 | MPa | ISO 527-3 |
| Tensile stress at break MD | 28 | MPa | ISO 527-3 |
| Tensile stress at break TD | 28 | MPa | ISO 527-3 |
| Elongation at break MD | 550 | % | ISO 527-3 |
| Elongation at break TD | 650 | % | ISO 527-3 |
| 1% Secant modulus MD | 230 | MPa | ISO 527-3 |
| 1% Secant modulus TD | 240 | MPa | ISO 527-3 |
| Elmendorf tear resistance MD | 35 | N/mm | ISO 6383-2 |
| Elmendorf tear resistance TD | 50 | N/mm | ISO 6383-2 |
| Impact resistance F50 (Dart Drop Test) | 290 | g | ISO 7765-1/A |
| Dynamic coefficient of friction (COF) | > 0,5 | - | ISO 8295 |
| Haze | 6 | % | ISO 14782 |
| Gloss, 45° | 70 | % | ASTM D 2457 |
| Recommended film thickness | 40 ± 150 | micron | - |





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MAIN APPLICATIONS

Riblene FC 40 F BCA is recommended for the production of shrink film for medium and high loads characterized by high rigidity, clarity and gloss. It is characterised by a high melt strength leading to a good bubble stability during extrusion.

PROCESSING NOTES

Riblene FC 40 F BCA 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 40 F BCA is supplied in pellet form. This material may readily be conveyed and bulk fed through equipment designed for conventional pelletized 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 practiced 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 odor generation, color 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 FC 40 F BCA 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.

