

RIBLENE®

LDPE

GM 30 R

Low density polyethylene

Riblene GM 30 R is a medium fluidity low density polyethylene resin (LDPE), obtained from vessel process.

Main Application

Riblene GM 30 R is suitable for coating applications where low neck-in is required. Moreover, for its rheological properties, Riblene GM 30 R can be used for injection moulded high thickness articles, caps, closures, stoppers and houseware.

Main Properties

| Resin Properties | Value | Unit | Test Method |
|---------------------------------|-------|---------|-----------------|
| Melt Flow Rate (190 °C/2,16 kg) | 4 | g/10min | ISO 1133 |
| Melt Flow Rate (190 °C/21,6 kg) | - | % | ISO 1133 |
| Density | 0,923 | g/cm3 | ISO 1183 |
| Melting Point | 113 | °C | Internal method |
| Brittleness temperature | <- 75 | °C | ASTM D 746 ISO |
| Vicat softening point (1 kg) | 94 | °C | 306/A |

| Mechanical Properties * | Value | Unit | Test Method |
|-------------------------|-------|---------|-------------|
| Tensile stress at yield | 11 | MPa | ISO 527 |
| Tensile stress at break | 13 | MPa | ISO 527 |
| Elongation at break | 450 | % | ISO 527 |
| Flexural modulus | - | MPa | ISO 178 |
| Hardness Shore A | - | Shore A | ISO 868 A |
| Hardness Shore D | 48 | Shore D | ISO 868 A |

(*) Values are referred to injection moulded specimens. Actual properties are typical and may vary depending upon operating conditions.

Processing notes

Riblene GM 30 R is easily processed in extrusion coating lines. The suggested temperature is from 260 to 330 °C. Riblene GM 30-R can be extruded at thickness lower than 15 µm.

Storage and Handling

Riblene GM 30 R 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 GM 30 R 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. Versalis is available to provide the guaranteed values for each product on demand.

DISCLAIMER: it is the sole responsibility of the end-user to determine the safety, the regulatory compliance as well as the technical suitability of the product for the intended application. The product is not intended for use in medical devices and pharmaceutical applications; Versalis declines all responsibility and cannot be held liable in case of use in the above mentioned applications.