versalis

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Technical data sheet

RIBLENE ®

LDPE

MR 10 R

Low density polyethylene

Riblene MR 10 R is a low density polyethylene resin (LDPE).
Its fluidity and density values guarantee excellent processability and high flexibility characteristics to the products.

Main Application

Riblene MR 10 R is suitable to be transformed by injection molding and, thanks to its high fluidity, it can be used for the production of compounds. Riblene MT 10 R is recommended for large items, complex artifacts, thin thicknesses and artificial flowers.

Main Properties

Resin Properties	Value	Unit	Test Method
Melt Flow Rate (190 °C/2,16 kg)	20	g/10min	ISO 1133
Melt Flow Rate (190 °C/21,6 kg)	-	g/10min	ISO 1133
Density	0,919	g/cm3	ISO 1183
Melting Point	107	°C	Internal method
Brittleness temperature	< -20	°C	ASTM D 746 ISO
Vicat softening point (1 kg)	84	°C	306/A

Mechanical Properties *	Value	Unit	Test Method
Tensile stress at yield	10	MPa	ISO 527
Tensile stress at break	-	MPa	ISO 527
Elongation at break	-	%	ISO 527
Flexural modulus	120	MPa	ISO 178
Hardness Shore A	-	Shore A	ISO 868 A
Hardness Shore D	45	Shore D	ISO 868 A

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

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Processing notes

Processing conditions are depending on several parameters: the shape of the part to be manufactured, the localisation of the injection point, the injection moulding machine and the cooling of the mould.
Typical processing conditions:

Temperature profile of the barrel	(°C)	160 - 200
Temperature of the mould	(°C)	10 - 30

Storage and Handling

Riblene MR 10 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 MR 10 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.

Technical Management Polyethylene

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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.