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|  |  | **Technical Data Sheet** | | |
| www.versalis.eni.com |  |  | info.polyethylene@versalis.eni.com | |
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| **RIBLENE ®** | |  | **MV 10 R** | |
| LDPE | |  | Low density polyethylene | |



Riblene MV 10 R is a low density polyethylene resin having an excellent fluidity (LDPE).

Parts made by Riblene MV 10 R are highly flexible.

**Main Application**

Riblene MV 10 R is ideal for injection moulding applications. Riblene MV 10 R is recommended for low thickness and very complex articles requiring a short production cycle and for basterbatches.

**Main Properties**

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| **Resin Properties** | **Value** | **Unit** | **Test Method** |
| Melt Flow Rate (190 °C/2.16 kg) | 65 | 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 | 0.917 | g/cm3 | ISO 1183 |
| Melting point | 104 | °C | Metodo interno |
| Brittleness temperature | < 0 | °C | ASTM D 746 |
| Vicat softening point (1 kg) | 82 | °C | ISO 306/A |

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| **Mechanical Properties \*** | **Value** | **Unit** | **Test Method** |
| Tensile stress at yield | 9 | MPa | ISO 527 |
| Tensile stress at break | - | MPa | ISO 527 |
| Tensile strain at yieal | - | % | ISO 527 |
| Elongation at brek | - | % | ISO 527 |
| Flexural modulus | 110 | MPa | ISO 178 |
| Hardness Shore D | 43 | - | ISO 868 A |
| Falling Weight: | - | J/mm | ISO 6603-2 |
| Izod impact strength, notched | - | J/m | ISO 180/A |
| Environmental Stress Cracking Resistance (ESCR) | - | h | ASTM 1693/B |

* Values are referred to injection moulded specimens. Actual properties are typical and may vary depending upon operating conditions. R= Made in Ferrara (Italy)

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This document is constituted of 2 pages Pag 1/2 November 2014

**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 MV 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 MV 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 SERVICE

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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.

Pag 2/2 November 2014