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Technical data sheet

RIBLENE ®

LDPE

GP 20 R

Low density polyethylene

Riblene GP 20 R is a high fluidity low density polyethylene resin (LDPE), obtained from vessel process.

Main Application

Riblene GP 20 R is suitable for coating applications where low neck-in and high draw-down are key factors. For its excellent organoleptic properties, Riblene GP 20 R can be used for foodstuff flexible packaging. Moreover, for its rheological properties, Riblene GP 20 R can be used for injection moulded medium thickness articles, toys and houseware.

Main Properties

Resin Properties	Value	Unit	Test Method
Melt Flow Rate (190 °C/2,16 kg)	8	g/10min	ISO 1133
Melt Flow Rate (190 °C/21,6 kg)	-	%	ISO 1133
Density	0,921	g/cm3	ISO 1183
Melting Point	108	°C	Internal method
Brittleness temperature	< -75	°C	ASTM D 746 ISO
Vicat softening point (1 kg)	85	°C	306/A

Mechanical Properties *	Value	Unit	Test Method
Tensile stress at yield	9	MPa	ISO 527
Tensile stress at break	11	MPa	ISO 527
Elongation at break	500	%	ISO 527
Flexural modulus	-	MPa	ISO 178
Hardness Shore A	-	Shore A	ISO 868 A
Hardness Shore D	46	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

Riblene GP 20 R is easily processed in extrusion coating lines. The suggested temperature is from 260 to 330 ° C. Riblene GP 20 R can be extruded at thickness lower than 10 µm.

Storage and Handling

Riblene GP 20 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 GP 20 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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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.

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