



versalis

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RIBLENE[®]

LDPE

Technical Data Sheet

GM 20 R

Low density polyethylene

Riblene GM 20 R is a medium fluidity low density polyethylene resin (LDPE).

Main Application

Riblene GM 20 R is suitable for coating applications where a low neck-in is required. Moreover, for its rheological properties, Riblene GM 20 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)	3.5	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	0.920	g/cm ³	ISO 1183
Melting point	111	°C	Internal method
Brittleness temperature	<- 75	°C	ASTM D 746
Vicat softening point (1 kg)	89	°C	ISO 306/A

Mechanical Properties *

	Value	Unit	Test Method
Tensile stress at yield	10	MPa	ISO 527
Tensile stress at break	12	MPa	ISO 527
Tensile strain at yield	-	%	ISO 527
Elongation at break	520	%	ISO 527
Flexural modulus	-	MPa	ISO 178
Hardness Shore D	47	-	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)

Processing notes

Riblene GM 20 R is easily processed in extrusion coating lines. The suggested temperature is 260÷330°C. Riblene GM 20 R can be extruded at thickness lower than 15 µm.

Storage and Handling

Riblene GM 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 GM 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 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.