

PRODUCT DATA SHEET

02.06.2016 Ed.1



Polypropylene

Fibremod™ GE309SF

Polypropylene Compound, Glass Fibre Reinforced

Description

Fibremod GE309SF is a 30% chemically coupled glass fibre reinforced polypropylene compound intended for injection moulding. This grade is characterized by a good combination of mechanical and flow properties.

Applications

Fibremod GE309SF has been developed especially for the automotive industry and is suitable for applications like:

Exterior trims
Structural parts
Aesthetical parts

Covers
Closures

Special Features

UV resistance
Long term heat stabilised
Very good processability

Excellent surface appearance on unpainted and grained parts

Physical Properties

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (23 °C)	1150 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	14 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	7.000 MPa	ISO 178
Flexural Strength	120 MPa	ISO 178
Tensile Modulus (1 mm/min) (23 °C)	8.200 MPa	ISO 527-2
Tensile Stress at Yield (50 mm/min) (23 °C)	95 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (1,8 MPa)	148 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	8,5 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	6 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, unnotched (23 °C)	40 kJ/m ²	ISO 179/1eU

Combustion Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Flammability at thickness 1 mm	Max100 mm/min	ISO 3795

Fibremod is a trademark of the Borealis group.

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**Polypropylene****Fibremod GE309SF****Processing Techniques**

The actual conditions will depend on the type of equipment used.

Following parameters should be used as guidelines:

Drying

95 - 105 °C

Recommended to avoid residual humidity from transport or storage.

Feeding temperature

40 - 80 °C

Mass temperature

220 - 260 °C

Holding pressure

50-70% of injection pressure

Back pressure

Low to medium

Mould temperature

30 - 50 °C

Screw speed

Low to medium

Flow front speed

100 - 200 mm/s

Storage

Fibremod GE309SF should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

Safety

The product is not classified as dangerous. Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Regional Availability

South America

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**Polypropylene****Fibremod GE309SF****Disclaimer**

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

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