

## Polypropylene

# Fibremod™ GD302HP

Polypropylene Compound, Glass Fibre Reinforced

### Description

**Fibremod™ GD302HP** is a 30 % chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding.

This material has an excellent balance between impact strength and stiffness and is easy to process.

### Applications

**Fibremod GD302HP** has been developed especially for the automotive industry.

Dashboard carriers  
Door module carriers

Structural seat parts

### Special Features

High impact strength

### Physical Properties

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Density	1140 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	4 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	5.100 MPa	ISO 178
Tensile Strength	65 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	150 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	25 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	15 kJ/m <sup>2</sup>	ISO 179/1eA

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

### Application Related and Other Tests

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Fogging (100 °C,16 h)	< 1,5 mg	DIN 75201
Emission	< 50 µgC/g	VDA 277

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### Processing Techniques

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

#### Injection Moulding

Fibremod GD302HP is easy to process with standard injection moulding machines. Following parameters should be used as guidelines:

Feeding temperature	40 - 80 °C
Mass temperature	220 - 260 °C
Back pressure	As low as possible
Holding pressure	30 - 60 MPa
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

### Storage

**Fibremod GD302HP** 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

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety 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.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of recovery and disposal of the product.

### Regional Availability

Europe

For information on regional availability please contact Borealis Sales Representative.

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## Fibremod GD302HP

### Issuer:

Marketing Automotive / Georg Grestenberger  
Product Management / Erwin Kastner

### Disclaimer

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