

Polypropylene

Fibremod™ GD301FE

Polypropylene Compound, Glass Fibre Reinforced

Description

Fibremod™ GD301FE is a 30 % chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding.

This material shows excellent mechanical properties also at elevated temperatures.

The product is available in standard black 9502.

Applications

Fibremod GD301FE has been developed especially for applications like:

Front end carriers	Pump housings
Door module carriers	Pedal carriers
Fans and shrouds	Air bag housings

Physical Properties

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Density	1140 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	4 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	7.500 MPa	ISO 527-2
Tensile Strength (50 mm/min)	105 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	158 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	12 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	10 kJ/m ²	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 mg	DIN 75201
Emission	40 µgC/g	VDA 277

Processing Techniques

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

Injection Moulding

This product is easy to process with standard injection moulding machines. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 80°C. 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 bar
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

Fibremod is a trademark of the Borealis group.

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Storage

Fibremod GD301FE 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.

Issuer:

Marketing Automotive / Georg Grestenberger

Product Management / Erwin Kastner

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.

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