

Polypropylene

Fibremod™ GC420SFB

Polypropylene Compound

Description

Fibremod™ GC420SFB is a chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding.

This material has a very high impact strength while maintaining good stiffness and gives a good surface quality.

Applications

Structural parts

Special Features

impact resistance

temperature performance

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
<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)	7,5 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	6.000 MPa	ISO 178
Tensile Strength (50 mm/min)	80 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	160 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	23 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, unnotched (23 °C)	77 kJ/m ²	ISO 179/1eU

Processing Techniques

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

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 95° - 105°C. Following moulding parameters should be used as guidelines:

Melt temperature	200 - 240 °C
Holding pressure	50-70% of injection pressure
Mould temperature	40 - 80 °C
Screw speed	Low to medium
Injection speed	Medium to high

Storage

Fibremod GC420SFB 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, recovery and disposal of the product. For more information, contact your Borealis representative.

Fibremod is a trademark of the Borealis group.

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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.

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Regional Availability

South America

For additional information on regional availability please contact your local Borealis Sales Representative.

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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