

Polypropylene

Fibremod™ GF027SFB

Polypropylene Compound, Glass Fibre Reinforced

Description

Fibremod™ GF027SFB is a chemically coupled glass fibre reinforced polypropylene compound intended for injection moulding.

Applications

Fibremod GF027SFB has been developed especially for applications like:

Structural parts
Complex custom 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
Density	920 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	18,5 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.650 MPa	ISO 178
Tensile Strength (50 mm/min)	34 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	146 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	7 kJ/m ²	ISO 179/1eA

Processing Techniques

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

To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 95° - 105°C. Fibremod GF027SFB is easy to process with standard injection moulding machines. Following moulding parameters should be used as guidelines:

Mass temperature	230 - 280 °C
Back pressure	Low to medium
Holding pressure	50-70% of injection pressure
Mould temperature	20 - 50 °C
Screw speed	Low to medium

Storage

Fibremod GF027SFB 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.

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 contact your Borealis representative for more details on recycling.

Regional Availability

South America

Fibremod is a trademark of the Borealis group.

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