

## 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 <sup>3</sup>	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 <sup>2</sup>	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.

Borealis Brasil S/A | Av. Osvaldo Berto, 700 | Bairro do Pinhal  
| Distrito Industrial Alfredo Rela | CEP: 13255-840  
| Itatiba - SP | Brasil | Website [www.borealisgroup.com](http://www.borealisgroup.com)



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