



**Polypropylene**

# Fibremod™ GC576SFB

Polypropylene Compound, Glass Fibre Reinforced

## Description

**Fibremod GC576SFB** is a 50 % chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding.

## Applications

**Fibremod GC576SFB** has been developed especially for the automotive industry.

Fans and shrouds

Pedal carriers

## Special features

Excellent mechanical properties even at high temperatures

## 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
Data should not be used for specification work		
Density (23 °C)	1350 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)	11.900 MPa	ISO 178
Flexural Strength	163 MPa	ISO 178
Tensile Modulus (1 mm/min) (23 °C)	11.800 MPa	ISO 527-2
Tensile Strain at Break (50 mm/min) (23 °C)	2 %	ISO 527-2
Tensile Stress at Yield (50 mm/min) (23 °C)	114 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa)	160 °C	ISO 75-2
Heat Deflection Temperature (1,80 MPa)	151 °C	ISO 75-2
Charpy Impact Strength, notched (-30 °C)	48 kJ/m <sup>2</sup>	ISO 179/1eA
Izod Impact Strength, notched (23 °C)	11,8 kJ/m <sup>2</sup>	ISO 180/1A

## Combustion Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Flammability at thickness 1 mm	Max100 mm/min	ISO 3795

## Processing Techniques

The actual conditions will depend on the type of equipment used. Following parameters should be used as guidelines:

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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:

Feeding temperature	40 - 80 °C
Mass temperature	230 - 280 °C
Holding pressure	50-70% of injection pressure
Back pressure	Low to medium
Mould temperature	20 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

## Storage

**Fibremod GC576SFB** 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

The product is not classified as dangerous. 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.

## 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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