## **PRODUCT DATA SHEET**

# Fibremod<sup>™</sup> GB417SF

## **Polypropylene Glass Fibre Reinforced Compound**

#### **Description**

Fibremod™ GB417SF is a 40 % chemically coupled glass fibre-reinforced polypropylene compound intended for injection moulding and extrusion. The product is available in natural and standard black colour.

## **Typical characteristics**

Fibremod<sup>™</sup> GB417SF can be described with following typical characteristics:

Excellent stiffness and impact balance	High Heat Stabilized
UV stabilised	
Applications	

#### Applications

Fibremod<sup>™</sup> GB417SF is intended for following applications: Exterior applications in the construction and building industry Structural parts Other automotive parts

### **Physical properties**

Property	Typical value *	Unit	Test method
Density	1230	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	1.7	g/10min	ISO 1133-1
Flexural modulus (2 mm/min)	9000	MPa	ISO 178
Charpy impact strength, notched (23 °C)	11	kJ/m²	ISO 179-1/1eA
Charpy impact strength, notched (-20 °C)	10	kJ/m²	ISO 179-1/1eA

\* Data should not be used for specification work

## **Processing techniques**

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

Injection Moulding:

To avoid residual humidity from transport or storage, the material should be pre-dried for approximately 2h at 80°C.

The following moulding parameters should be used as guidelines:

Processing setting	Typical value/range
Feeding temperature	40 - 80 °C
Mass temperature	230 - 280 °C
Back pressure	low to medium
Holding pressure	30 - 60 MPa
Mould temperature	30 - 50 °C
Screw speed	low to medium
Flow front speed	100 - 200 mm/s



## Polypropylene Fibremod™ GB417SF

## Packaging and storage

Fibremod<sup>™</sup> GB417SF should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

#### **Product compliance documents**

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

#### Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency.

Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

#### 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.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

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