

## Polypropylene

## Fibremod™ GB266WG

## Polypropylene Glass Fibre Reinforced Compound

## Description

Fibremod GB266WG is a 20% chemically coupled glass fibre reinforced polypropylene compound intended for injection moulding.

This material shows excellent mechanical properties also at elevated temperatures.

## Typical characteristics

Fibremod™ GB266WG can be described with following typical characteristics:

long term high heat stabilised

detergent resistant

## Applications

Fibremod™ GB266WG is intended for following applications:

Tubs for washing machines

Washing machines, dishwashers and dryers

## Physical properties

Property	Typical value *	Unit	Test method
Density	1050	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	3.5	g/10min	ISO 1133-1
Flexural modulus (2 mm/min)	4700	MPa	ISO 178
Tensile strength (50 mm/min)	85	MPa	ISO 527-2
Heat deflection temperature B (0.45 MPa)	159	°C	ISO 75-2
Charpy impact strength, notched (23 °C)	10	kJ/m²	ISO 179-1/1eA
Charpy impact strength, notched (-20 °C)	7.5	kJ/m²	ISO 179-1/1eA

\* Data should not be used for specification work

## Other properties

Property	Typical value *	Unit	Test method
Fogging (100 °C, 16 h)	<2	mg	DIN 75201
Total emission (headspace)	<50	µg C/g	VDA 277
Shrinkage (in flow, 150x80x2mm)	0.2	%	Borealis Test Method
Shrinkage (cross flow, 150x80x2mm)	0.95	%	Borealis Test Method

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## Processing techniques

Processing Techniques:

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

Injection Moulding:

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 80°C. Following parameters should be used as guidelines:

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Processing setting	Typical value/range
Feeding temperature	40 - 80 °C
Mass temperature	220 - 260 °C
Back pressure	low to medium MPa
Holding pressure	30 - 60 MPa
Mould temperature	30 - 50 °C
Screw speed	low to medium m/s
Flow front speed	100 - 200 mm/s

### Packaging and storage

Fibremod™ GB266WG 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](http://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](http://www.borealisgroup.com) and [www.borealiseverminds.com](http://www.borealiseverminds.com).

For information on regional availability please contact 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.

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.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

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