

Polypropylene

Fibremod™ GE266WGU

Polypropylene Glass Fibre Reinforced Compound

Description

Fibremod™ GE266WGU is a 20% chemically coupled glass fiber-reinforced polypropylene compound intended for injection molding. The product is available in natural color.

This material shows excellent mechanical properties also at elevated temperatures.

Typical characteristics

Fibremod™ GE266WGU can be described with following typical characteristics:

Long term high heat stabilized UL Listed
 Detergent resistant

Applications

Fibremod™ GE266WGU is intended for following applications:

Tubs for washing machines White goods
 Washing machines, dishwashers and dryers Appliances

Physical properties

Property	Typical value *	Unit	Test method
Density	1050	kg/m ³	ISO 1183-1/Method A
MFR 230°C/2.16 kg	10	g/10min	ISO 1133
Flex modulus 23°C/48h	5000	MPa	ISO 178
Tensile stress at yield 48h	75	MPa	ISO 527
Tensile modulus 48h	5000	MPa	ISO 527
Izod notched 23°C/48h	6	kJ/m ²	ISO 180

* Data should not be used for specification work

Processing techniques

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

Injection Molding:

This product is easy to process with standard injection molding machines.

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

The 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
Holding pressure	30 - 60 MPa
Mould temperature	30 - 50 °C
Screw speed	low to medium
Flow front speed	100 - 200 mm/s

Packaging and storage

Fibremod™ GE266WGU 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.

Regional Availability

North America

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.

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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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