

Polypropylene

Fibremod™ GD399SFU

Polypropylene Glass Fibre Reinforced Compound

Description

Fibremod GD399SFU is a 30% chemically coupled glass fibre reinforced polypropylene compound intended for injection molding.

Applications

Fibremod™ GD399SFU is intended for following applications:

- Boxes and crates
- Industrial applications
- Appliances

Specifications

Fibremod™ GD399SFU is expected to meet the applicable requirements included in the below mentioned standards provided it is processed using sound material handling and processing practices as well as appropriate testing procedures.

Physical properties

Property	Typical value *	Unit	Test method
Density	1120	kg/m ³	ISO 1183-1/Method A
MFR 230°C/2.16 kg	5	g/10min	ISO 1133
Flex modulus 23°C/48h	6100	MPa	ISO 178
Tensile stress at yield 48h	100	MPa	ISO 527
Izod notched 23°C/48h	11.5	kJ/m ²	ISO 180

* Data should not be used for specification work

Processing techniques

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

Processing setting	Typical value/range
Feeding temperature	40 - 80 °C
Mass temperature	220 - 260 °C
Back pressure ¹	As low as possible
Holding pressure	30 - 60 MPa
Mould temperature	30 - 50 °C
Screw speed ²	Low to medium
Flow front speed	100 - 200 mm/s

¹ As low as possible

² Low to medium

Packaging and storage

Fibremod™ GD399SFU 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.

Fibremod™ is a trademark of the Borealis Group



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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.

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.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.