PRODUCT DATA SHEET

Polypropylene

Fibremod™ GD399SFU

Polypropylene Glass Fibre Reinforced Compound

Description

Fibermod 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

Appliances

Industrial applications

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/m³	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/m²	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.

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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

Borealis Compounds Inc. | 176 Thomas Road | Port Murray, NJ 07865 | United States
Telephone: +1 908 850 6200 | www.borealisgroup.com