

Polypropylene

Fibremod™ GE313IM

Polypropylene Glass Fibre Reinforced Compound

Description

Fibremod GB313IM is a 30% chemically coupled glass fibre reinforced polypropylene compound intended for injection moulding. The product is available in natural colour.

This material shows excellent mechanical properties also at elevated temperatures.

Typical characteristics

Fibremod™ GE313IM can be described with following typical characteristics:

Food conformity
Heat stabilisation

Very high flowability

Applications

Fibremod™ GE313IM is intended for following applications:

Technical components for the white goods
Moulded articles

Structural parts

Physical properties

Property	Typical value *	Unit	Test method
Density	1120	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	12	g/10min	ISO 1133-1
Flexural modulus (2 mm/min)	6000	MPa	ISO 178
Tensile strength	110	MPa	ISO 527-2
Heat deflection temperature B (0.45 MPa)	160	°C	ISO 75-2
Charpy impact strength, notched (23 °C)	11	kJ/m²	ISO 179-1/1eA
Charpy impact strength, notched (-20 °C)	9	kJ/m²	ISO 179-1/1eA

* Data should not be used for specification work

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

Processing techniques

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

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:

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Packaging and storage

Fibremod™ GE313IM 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

Europe

For information on regional availability please contact Borealis Sales Representative.