Polypropylene

Fibremod™ GB364WG

Polypropylene Compound, Glass Fibre Reinforced

Description

Fibremod GB364WG 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.

Applications

Fibremod GB364WG has been developed especially for applications like:

Pump housings
Tubs for washing machines
Miscellaneous technical components for the white goods industry

Special Features

Long term high heat stabilised
Detergent resistant
UL approval according UL94
Drinking water and food conformity

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	1120 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	2 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	6.000 MPa	ISO 178
Tensile Strength	100 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	159 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	12 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	9 kJ/m²	ISO 179/1eA

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

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:

Feeding temperature	40 - 80 °C
Mass temperature	220 - 260 °C
Back pressure	As low as possible

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

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

Storage

Fibremod GB364WG should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

Safety

The product is not classified as dangerous.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the product. For more information, contact your Borealis representative.

Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of recovery and disposal of the product.

Regional Availability

Europe
For information on regional availability please contact Borealis Sales Representative.

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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.

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.

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