Polypropylene

Fibremod™ GD301HPB

Polypropylene Compound, Glass Fibre Reinforced

Description

Fibremod GD301HPB is a 30 % chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding.

Applications

Fibremod GD301HPB has been developed especially for the automotive industry.

Door module carriers
Fans and shrouds
Air bag housings
Pedal carriers
Pump housings

Special features

Excellent mechanical properties even at high tempertures

Physical Properties

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

Property	Typical Value Data should not be used for specification work	Test Method
Density (23 °C)	1170 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	5 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	7.400 MPa	ISO 178
Flexural Strength	130 MPa	ISO 178
Tensile Stress at Yield (50 mm/min) (23 °C)	105 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (1,8 MPa)	150 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	9,5 kJ/m²	ISO 179
Charpy Impact Strength, notched (-30 °C)	8 kJ/m²	ISO 179
Izod Impact Strength, notched (23 °C)	9 kJ/m²	ISO 180/1A
Izod Impact Strength, unnotched (23 °C)	30 kJ/m²	ISO 180/1U

Combustion Properties

Property	Typical Value Data should not be used for specification work	Test Method
Flammability at thickness 1 mm	Max100 mm/min	ISO 3795

Processing Techniques

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

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Fibremod GD301HPB 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 95° - 105°C.Following parameters should be used as guidelines:

Feeding temperature	40 - 80 °C
Mass temperature	230 - 280 °C
Holding pressure	30 - 60 MPa
Back pressure	Low to medium
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

Storage

Fibremod GD301HPB 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, recovery and disposal 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.

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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.

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.

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