

Fibremod [™] GD302HP

Polypropylene Compound, Glass Fibre Reinforced

Description

Fibremod GD302HP is a 30 % chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding.

This material has an excellent balance between impact strength and stiffness and is easy to process.

Applications

Fibremod GD302HP has been developed especially for the automotive industry.

Dashboard carriers Door module carriers Structural seat parts

Special features

High impact strength

Physical Properties

Property	Typical Value Data should not be used for specific	Test Method cation work
Density Melt Flow Rate (230 °C/2,16 kg) Flexural Modulus (2 mm/min) Flexural Strength Tensile Modulus (1 mm/min) Tensile Strain at Yield Tensile Stress at Yield Heat Deflection Temperature A (1,80 MPa) Charpy Impact Strength, notched (23 °C) Charpy Impact Strength, notched (-20 °C)		ISO 1183 ISO 1133 ISO 178 ISO 178 ISO 527-2 ISO 527-2 ISO 527-2 ISO 527-2 ISO 75-2 ISO 179/1eA ISO 179/1eA ISO 179/1eU
	60 kJ/m² 28 kJ/m² 16 kJ/m²	ISO 179/1eU ISO 180/1A ISO 180/1A

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





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Application Related and other Tests

Property	Typical Value Data should not be used for s	Test Method specification work	
Average process Shrinkage (in flow, 150x80x2 mm) ¹	0,06 %	Borealis Method	
Average process Shrinkage (cross flow, 150x80x2 mm) ¹	0,80 %	Borealis Method	

¹ VALUES MAY ONLY BE USED AS INDICATION, AND SHOULD NOT BE USED DIRECTLY IN MOULD DESIGN WITHOUT PRIOR VALIDATION

Processing Techniques

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

Injection Moulding

Fibremod GD302HP is easy to process with standard injection moulding machines. Following parameters should be used as guidelines:

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

Storage

Fibremod GD302HP 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.

