



Polypropylene

Fibremod™ GE277AI

Polypropylene Compound, Glass Fibre Reinforced

Description

Fibremod GE277AI is a 20 % 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.

The product is available in standard black 9502.

Applications

Fibremod GE277AI has been developed especially for demanding applications in the automotive industry. has been developed especially for applications like:

Structural parts
Other automotive parts

Instrument panel carriers

Special features

Fibremod GE277AI is suitable for processing with foaming technologies.

Very high flowability

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	1040 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	12 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	4.200 MPa	ISO 178
Tensile Strength	85 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	155 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	11 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	10 kJ/m ²	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.

Application Related and other Tests

Property	Typical Value	Test Method
Data should not be used for specification work		
Fogging (100 °C,16 h)	< 2 mg	DIN 75201
Emission	< 50 µgC/g	VDA 277
Mould average Shrinkage ¹	0,1 %	Borealis Method

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

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Processing Techniques

Fibremod GE277AI is recommended to pre-dry before processing. A guideline is to dry the material 3 hours at 80°C.

Injection Moulding

This product is easy to process with standard injection moulding machines.

Following moulding parameters should be used as guidelines:

Feeding temperature	40 - 80 °C
Mass temperature	220 - 260 °C
Back pressure	Low to medium
Holding pressure	30 - 70 MPa
Mould temperature	30 - 70 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

Storage

Fibremod GE277AI 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.

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