

Polypropylene

Fibremod™ GE277AI

Polypropylene Compound, Glass Fibre Reinforced

Description

Fibremod™ GE277AI is a 20% chemically coupled 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.

Structural parts

Automotive interior applications

Instrument panel carriers

Special Features

Fibremod GE277AI is suitable for processing with special foaming technologies.

Very high flowability

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	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
Tensile Modulus (1 mm/min)	4.900 MPa	ISO 527-2
Tensile Strength (50 mm/min)	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

Application Related and Other Tests

Property	Typical Value	Test Method
	Data should not be used for specification work	
Fogging (100 °C, 16 h)	< 1,5 mg	DIN 75201
Emission	< 40 µgC/g	VDA 277
Spiral flow length (230°C, 40°C, 600bar)	700 mm	BTM = Borealis Test Method

Fibremod is a trademark of the Borealis group.

Polypropylene

Fibremod GE277AI

Processing Techniques

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

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	210 - 250 °C	
Holding pressure	50-70% of injection pressure	
Back pressure	Low to medium	
Mould temperature	30 - 70 °C	
Screw speed	Low to medium	
Flow front speed	100 - 200 mm/s	Improves surface aesthetics in case of tigerstrips

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

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

North America: grade available under the name Fibremod GE277AIU

For information on regional availability please contact Borealis Sales Representative.

Polypropylene

Fibremod GE277AI

Issuer:

Marketing Automotive / Georg Grestenberger
Product Management / Erwin Kastner

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.