

Polypropylene

Fibremod™ GB307HP

Polypropylene Compound, Glass Fibre Reinforced

Description

Fibremod™ GB307HP is a chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding.

This material shows excellent mechanical properties also at elevated temperatures.

The product is available in standard black 9502.

Applications

Fibremod GB307HP has been developed especially for demanding applications in under the bonnet applications.

Air intake manifolds
Parts for cooling systems

Fans and shrouds
Technical components exposed to high heat and loads

Special Features

Long term high heat stabilised

Copper (Cu) stabilised

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	1180 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	2,5 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	8.000 MPa	ISO 178
Tensile Strength	115 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	160 °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.

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

Storage

Fibremod GB307HP 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, recovery and disposal of the product. For more information, contact your Borealis representative.

Fibremod is a trademark of the Borealis group.

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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 products.

Regional Availability

Europe

North America: grade available under the name GB307HPU

South America: grade available under the name GB307HPB

For additional information on regional availability please contact your local Borealis Sales Representative.

Issuer:

Marketing Automotive / Daniel Bahls

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.

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