

Polypropylene Fibremod™ GB477HP

Description

Fibremod™ GB477HP is a 40 % chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding.

The product is available in standard black 9502.

Applications

Fibremod GB477HP has been developed especially for demanding applications in the automotive industry.

Front end carriers	Structural parts
Under the bonnet components	Tank hinges
Pedal carriers	

Special Features

Excellent stiffness	Low emission
Good processability	

Physical Properties

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Density	1230 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	2,5 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	9.000 MPa	ISO 178
Tensile Strength	127 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	163 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	12 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	11 kJ/m ²	ISO 179/1eA

Application Related Tests

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Emission	< 50 µgC/g	VDA 277

Processing Techniques

Fibremod GB477HP 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

Fibremod is a trademark of the Borealis group.

Polypropylene

Fibremod GB477HP

Storage

Fibremod GB477HP 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.

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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Regional Availability

Europe

South America: grade available under the name GB477HPB

North America: grade available under the name GB477HPU

For information on regional availability please contact Borealis Sales Representative.

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.

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