

PRODUCT DATA SHEET

21.06.2016 Ed.7


Polypropylene

Fibremod™ GB477HP

Description

Fibremod GB477HP is a 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
Under the bonnet components
Pedal carriers

Other automotive parts
Structural parts

Special Features

Excellent stiffness
Good processability

Low emission

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	1230 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	2,7 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	9.000 MPa	ISO 178
Tensile Strength	130 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	163 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	11,5 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	11,0 kJ/m ²	ISO 179/1eA

Application Related Tests

Property	Typical Value	Test Method
Data should not be used for specification work		
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.

Fibremod is a trademark of the Borealis group.

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

PRODUCT DATA SHEET

21.06.2016 Ed.7

**Polypropylene****Fibremod GB477HP**

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 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

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.

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

South America: grade available under the name GB477HPB

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

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

PRODUCT DATA SHEET

21.06.2016 Ed.7

**Polypropylene****Fibremod GB477HP****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.

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com