



# 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

Structural parts  
Tank hinges

## Special Features

Excellent stiffness  
Good processability

Low emission

## Physical Properties

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Density	1230 kg/m <sup>3</sup>	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 <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	11 kJ/m <sup>2</sup>	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.

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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 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.

**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.**

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