

# Fibremod<sup>™</sup> WE380HP

### Description

**Fibremod WE380HP** is a high performance hybrid reinforced (20% glass fibre / 10% mineral) copolypropylene compound intended for injection moulding.

This material has an excellent balance between impact strength and stiffness combined with outstanding processability.

The product is available in standard black 9502. The product is available in natural colour.

#### Applications

Fibremod WE380HP has been developed especially for applications like:

Engine covers Airbag containers Gear housings

### **Special Features**

Excellent flowability Excellent impact behaviour Excellent surface appearance

## **Physical Properties**

Property	Typical Value Test Method   Data should not be used for specification work Feature of the specification work		
Density	1130 kg/m³	ISO 1183	
Melt Flow Rate (230 °C/2,16 kg)	10 g/10min	ISO 1133	
Tensile Modulus (1 mm/min)	5.000 MPa	ISO 527-2	
Tensile Strength (50 mm/min)	60 MPa	ISO 527	
Heat Deflection Temperature B (0,45 MPa)	155 °C	ISO 75-2	
Charpy Impact Strength, notched (23 °C)	11 kJ/m²	ISO 179/1eA	
Charpy Impact Strength, notched (-20 °C)	9 kJ/m²	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.

## **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)	590 mm	BTM = Borealis Test Method





# Fibremod WE380HP

# **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. Following moulding parameters should be used as guidelines:

40 - 80 °C

30 - 50 °C

220 - 260 °C

Low to medium 30 - 60 MPa

Low to medium

100 - 200 mm/s

Feeding temperature Mass temperature Back pressure Holding pressure Mould temperature Screw speed Flow front speed

# Storage

**Fibremod WE380HP** 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.

