Polypropylene
Fibremod™ 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
Gear housings
Airbag containers

Special Features

Excellent flowability
Excellent impact behaviour
Excellent surface appearance

Physical Properties

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

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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:

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 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.

Regional Availability
Europe
For information on regional availability please contact Borealis Sales Representative.

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Issuer:
/ Karla Pils-Elias

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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