

**Polypropylene****Fibremod™WD300UBB**

Polypropylene Compound, Glass Fibre/Mineral Filled

Description**Fibremod WD300UBB** is a Glass Fibre/Mineral filled polypropylene compound intended for injection moulding.

The product is 30% Glass Fibre/Mineral filled.

Applications**Fibremod WD300UBB** has been developed especially for the automotive industry.Air filters
Automotive interior applications

Lamp housings

Special FeaturesVery good stiffness
Very good dimensional stability

Excellent mechanical properties even at high temperatures

Physical Properties

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

| Property | Typical Value | Test Method |
|---|------------------------|-------------|
| Data should not be used for specification work | | |
| Density (23 °C) | 1130 kg/m ³ | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | 5 g/10min | ISO 1133 |
| Flexural Modulus (2 mm/min) | 5.000 MPa | ISO 178 |
| Flexural Strength | 88 MPa | ISO 178 |
| Tensile Stress at Yield (50 mm/min) (23 °C) | 67 MPa | ISO 527-2 |
| Heat Deflection Temperature Edgewise (1,8 MPa) | 138 °C | ISO 75-2 |
| Heat Deflection Temperature Edgewise (0,45 MPa) | 158 °C | ISO 75-2 |
| Vicat softening temperature B50, | 111 °C | ISO 306 |
| Charpy Impact Strength, notched (-30 °C) | 6,0 kJ/m ² | ISO 179 |
| Charpy Impact Strength, notched (23 °C) | 8,3 kJ/m ² | ISO 179 |
| Charpy Impact Strength, notched (-20 °C) | 6,4 kJ/m ² | ISO 179 |
| Izod Impact Strength, notched (23 °C) | 7 kJ/m ² | ISO 180/1A |
| Izod Impact Strength, notched (0 °C) | 6 kJ/m ² | ISO 180/1A |
| Izod Impact Strength, notched (-30 °C) | 5 kJ/m ² | ISO 180/1A |

Combustion Properties

| Property | Typical Value | Test Method |
|--|---------------|-------------|
| Data should not be used for specification work | | |
| Flammability at thickness 1 mm | Max100 mm/min | ISO 3795 |
| Fogging | 0,8 mg | DIN 75201 |

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The actual conditions will depend on the type of equipment used. Following parameters should be used as guidelines:

| | |
|---------------------|----------------|
| Feeding temperature | 40 - 80 °C |
| Mass temperature | 230 - 280 °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 WD300UBB 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.