



# **Polypropylene** **Xmod<sup>TM</sup> WD300UBB**

Polypropylene Compound, Glass Fibre/Mineral Filled

## Description

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

The product is 30% Glass Fibre/Mineral filled.

## Applications

**Xmod WD300UBB** has been developed especially for the automotive industry.

Air filters  
Automotive interior applications

Lamp housings

## Special features

Very 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 <sup>3</sup>	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
Izod Impact Strength, notched (23 °C)	7 kJ/m <sup>2</sup>	ISO 180/1A
Izod Impact Strength, notched (0 °C)	6 kJ/m <sup>2</sup>	ISO 180/1A
Izod Impact Strength, notched (-30 °C)	5 kJ/m <sup>2</sup>	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
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	



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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**

**Xmod 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.