

## Polypropylene

### MD221WGB

Polypropylene Compound, Mineral Filled

#### Description

**MD221WGB** is a 20% mineral filled polypropylene compound intended for injection moulding.

#### Applications

**MD221WGB** has been developed especially for the white goods industry.

Washing machine parts

#### 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)	1040 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)	2.700 MPa	ISO 178
Tensile Stress at Yield (50 mm/min) (23 °C)	32 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	127 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	4 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	2 kJ/m <sup>2</sup>	ISO 179/1eA

#### Processing Techniques

MD221WGB is easy to process with standard injection moulding machines. Following parameters should be used as guidelines:

To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 95° - 105°C.

Melt temperature	200 - 240 °C
Holding pressure	50-70% of injection pressure
Mould temperature	20 - 40 °C
Screw speed	Low to medium
Injection speed	Medium to high

#### Storage

**MD221WGB** 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

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.

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### Regional Availability

South America

For information on regional availability please contact Borealis Sales Representative.

### 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.**

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

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