# Polypropylene
# MG220WGB

Polypropylene Compound, Mineral Filled

## Description

**MG220WGB** is a 20% mineral filled polypropylene compound intended for injection moulding. **Applications**
**MG220WGB** has been developed especially for applications like:

Washing machine parts
Window frames

## Special Features

dimensional stability
stiffness
chemical resistance

## 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<br>Data should not be used for specification work | Test Method |
|---|---|---|
| Density | 1040 kg/m³ | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | 30 g/10min | ISO 1133 |
| Flexural Modulus (2 mm/min) | 2.200 MPa | ISO 178 |
| Flexural Strength | 36 MPa | ISO 178 |
| Tensile Stress at Yield (50 mm/min) | 25 MPa | ISO 527-2 |
| Heat Deflection Temperature (0,45 MPa) | 120 °C | ISO 75-2 |
| Charpy Impact Strength, notched (23 °C) | 5 kJ/m² | ISO 179/1eA |

## Processing Techniques

The actual conditions will depend on the type of equipment used.

To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 95° - 105°C. This product is easy to process with standard injection moulding machines. Following moulding parameters should be used as guidelines:

| | |
|---|---|
| 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

**MG220WGB** 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.

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## Safety

**MG220WGB** is not classified as a dangerous preparation. Dust and fines from the product may give a risk for dust explosion. All equipment should be properly earthed. Inhalation of dust may irritate the respiratory system and should be avoided. During processing of the product small amounts of fumes are generated, which require proper ventilation.

## 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 contact your Borealis representative for more details on recycling.

**Issuer:**
Marketing Advanced Products / Eduardo Girote
Product Management / Alexandrina Silva