



Polypropylene MB250WG

Polypropylene Compound, Mineral Filled

Description

MB250WG is a 20% mineral filled polypropylene compound intended for injection moulding. The product is available in natural and grey.

Applications

MB250WG has been developed especially for the white goods industry.

Washing machine parts

Dishwashers components

Special Features

UL registered under File E108112
Detergent resistant

Long term heat stabilised

Physical Properties

| Property | Typical Value | Test Method |
|--|------------------------|-------------|
| Data should not be used for specification work | | |
| Density | 1033 kg/m ³ | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | 2,5 g/10min | ISO 1133 |
| Tensile Modulus (2 mm/min) | 2.500 MPa | ISO 178 |
| Tensile Strength (50 mm/min) | 32 MPa | ISO 527-2 |
| Heat Deflection Temperature (0,45 MPa) | 110 °C | ISO 75-2 |
| Charpy Impact Strength, notched (23 °C) | 5,5 kJ/m ² | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C) | 2,5 kJ/m ² | 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.

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. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 80°C. Following 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 |

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Flow front speed

100 - 200 mm/s

Storage

MB250WG 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 products are 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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