PRODUCT DATA SHEET

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 Data should not be used for spe	Test Method acification work
Density (23 °C)	1040 kg/m³	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/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	2 kJ/m²	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 Holding pressure

Mould temperature Screw speed Injection speed 200 - 240 °C 50-70% of injection pressure 20 - 40 °C Low to medium 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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Polypropylene MD221WGB

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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It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

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