PRODUCT DATA SHEET

Polypropylene

MB250WG

Polypropylene Mineral Filled Compound

Description

MB250WG is a 20% mineral-filled polypropylene compound intended for injection moulding. This material has good impact strength while maintaining good stiffness and is easy to process. The product is available in natural and grey colours.

Typical characteristics

MB250WG can be described with following typical characteristics:

UL94 Listed
Detergent Resistant
Long Term Heat Stability
Good Stifness and Impact Balance

Applications

MB250WG is intended for following applications:

Small appliances
White goods
Washing machines, dishwashers and dryers

Physical properties

Property	Typical value *	Unit	Test method
Density	1033	kg/m³	ISO 1183-1
MFR 230°C/2.16kg	2.5	g/10min	ISO 1133-1
Tensile modulus	2500	MPa	ISO 527-2
Tensile strength （50 mm/min)	32	MPa	ISO 527-2
Heat deflection temperature B （0.45 MPa)	110	°C	ISO 75-2
Charpy impact strength, notched （23 °C)	5.5	kJ/m²	ISO 179-1/1eA
Charpy impact strength, notched （-20 °C)	2.5	kJ/m²	ISO 179-1/1eA

* Data should not be used for specification work

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 for approximately 2h at 80°C.

The following moulding parameters should be used as guidelines:

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Processing setting	Typical value/range
Feed section 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
Flow front speed	100 - 200 mm/s

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency.

Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

Disclaimer

Borealis AG | Trabrennstrasse 6-8 | A-1020 Vienna | Austria
Telephone: +43 1 22 400 0* | Fax: +43 1 22 400 333
Website www.borealisgroup.com