

Polypropylene

MG255AI

Polypropylene Mineral Filled Compound

Description

MG255AI is a mineral filled elastomer modified polypropylene compound intended for injection moulding. This material has excellent balanced mechanical properties and high melt flow rate.

Applications

MG255AI is intended for following applications:

Air ducts

Air conditioning parts

Air filters

Automotive under the bonnet parts

Physical properties

Property	Typical value *	Unit	Test method
Density	1060	kg/m ³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	22	g/10min	ISO 1133-1
Flexural modulus (2 mm/min)	3100	MPa	ISO 178
Charpy impact strength, notched (-20 °C)	1.6	kJ/m ²	ISO 179-1
Charpy impact strength, notched (23 °C)	2.5	kJ/m ²	ISO 179-1
Tensile strength (50 mm/min)	32	MPa	ISO 527-2
Heat deflection temperature B (0.45 MPa)	125	°C	ISO 75-2

* Data should not be used for specification work

Processing techniques

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 moulding parameters should be used as guidelines:

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

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

Packaging and storage

MG255AI should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

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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.

Regional Availability

Europe

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.

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