

## Polypropylene

# MG160AI

## Polypropylene Mineral Filled Compound

### Description

MG160AI is a 10% mineral filled high crystallinity polypropylene compound intended for injection molding. This material has an excellent balance between impact strength and stiffness.

### Typical characteristics

MG160AI can be described with following typical characteristics:

Low density	Excellent scratch resistance
High flowability	Good surface appearance

### Applications

MG160AI is intended for following applications:

Automotive interior applications	Trunk claddings
Pillar trims	

### Physical properties

Property	Typical value *	Unit	Test method
Density	985	kg/m <sup>3</sup>	ISO 1183
Melt flow rate ( 230 °C/2.16 kg)	22	g/10min	ISO 1133
Flexural modulus ( 2 mm/min)	1950	MPa	ISO 178
Tensile strength ( 50 mm/min)	25	MPa	ISO 527-2
Heat deflection temperature B ( 0.45 MPa)	105	°C	ISO 75-2
Charpy impact strength, notched ( 23 °C)	7.0	kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy impact strength, notched ( -20 °C)	3.5	kJ/m <sup>2</sup>	ISO 179-1/1eA

\* Data should not be used for specification work

Values determined on standard injection molded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

### Other properties

Property	Typical value *	Unit	Test method
Fogging (100 °C, 16 h)	≤2	mg	DIN 75201
Total emission (headspace)	≤50	µg C/g	VDA 277

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### Processing techniques

This product is easy to process with standard injection molding machines. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 80°C. Following molding parameters should be used as guidelines:

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Processing setting	Typical value/range
Feeding temperature	40 - 80 °C
Mass temperature	210 - 250 °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

MG160AI 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.

### 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](http://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](http://www.borealisgroup.com) and [www.borealiseverminds.com](http://www.borealiseverminds.com).

### Regional Availability

Europe

South America: Grade available under the name MG160AIB

North America: Grade available under the name MG160AIU

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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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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