

## Polypropylene

# MS64T20

### Polypropylene Mineral Filled Compound

#### Description

MS64T20 is a 22% mineral filled polypropylene compound intended for injection molding.

This material provides high stiffness and is easy to process.

#### Typical characteristics

MS64T20 can be described with following typical characteristics:

High flowability

Easy to process

Low coefficient of thermal expansion

#### Applications

MS64T20 is intended for following applications:

Cowl vent grilles

Automotive exterior applications

Automotive interior applications

#### Physical properties

Property	Typical value *	Unit	Test method
Density	1070	kg/m <sup>3</sup>	ISO 1183-1
Melt flow rate ( 230 °C/2.16 kg)	22.5	g/10min	ISO 1133-1
Flexural modulus ( 2 mm/min)	3200	MPa	ISO 178
Heat deflection temperature B ( 0.45 MPa)	120	°C	ISO 75-2
Charpy impact strength, notched ( 23 °C)	2.5	kJ/m <sup>2</sup>	ISO 179-1
Charpy impact strength, notched ( -30 °C)	0.6	kJ/m <sup>2</sup>	ISO 179-1
Charpy impact strength, notched ( -20 °C)	1.2	kJ/m <sup>2</sup>	ISO 179-1
Coefficient of thermal expansion ( -30 °C/80 °C)	56	µm/mK	Borealis test method

\* 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)	0.5	mg	DIN 75201

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#### 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 parameters should be used as guidelines:

## Polypropylene

### MS64T20

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

MS64T20 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

North America: grade available under the name MS64T20U

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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