

## Polypropylene

# MSC64T20

### Polypropylene Mineral Filled Compound

#### Description

MSC64T20 is a 22% mineral filled polypropylene compound intended for injection molding. The material is available in technical black "9502", but can also be color-matched on request.

#### Typical characteristics

MSC64T20 can be described with following typical characteristics:

Easy processing	Good thermal stability
High rigidity	Low volatile content

#### Applications

MSC64T20 is intended for following applications:

Automotive interior applications	Under the bonnet components
Trunk claddings	Cowl vent grilles
Structural interior parts	

#### Physical properties

Property	Typical value *	Unit	Test method
Density	1050	kg/m <sup>3</sup>	ISO 1183-1
MFR 230°C/2.16kg	12	g/10min	ISO 1133-1
Flexural modulus ( 2 mm/min)	2200	MPa	ISO 178
Tensile strength ( 50 mm/min)	28	MPa	ISO 527-2
Heat deflection temperature A ( 1.80 MPa)	64	°C	ISO 75-2
Coefficient of thermal expansion ( -30 °C/80 °C)	56	µm/mK	Borealis test method
Charpy impact strength, notched ( 23 °C)	4.2	kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy impact strength, notched ( -20 °C)	2.3	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.

#### 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 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 bar
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.

### 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

For information on regional availability please contact Borealis Sales Representative.

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