



# Polypropylene MS64T20

Polypropylene Compound, Mineral Filled

## Description

**MS64T20** is a 20% mineral filled polypropylene compound intended for injection moulding.

This material has excellent balanced mechanical properties and is easy to process.

## Applications

**MS64T20** has been developed especially for the automotive industry.

Cowl vent grilles  
Automotive interior applications

Automotive exterior applications

## Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	1070 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	22,5 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	3.200 MPa	ISO 178
Flexural Strength	56 MPa	ISO 178
Tensile Modulus (1 mm/min)	3.100 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	5 %	ISO 527-2
Tensile Strain at Break (50 mm/min)	13 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	32 MPa	ISO 527-2
Heat Deflection Temperature A (1,80 MPa)	66 °C	ISO 75-2
Heat Deflection Temperature B (0,45 MPa)	120 °C	ISO 75-2
Vicat softening temperature (10 N)	154 °C	ISO 306
Vicat softening temperature (50 N)	97 °C	ISO 306
Coefficient of Thermal Expansion (-30 °C/80 °C)	56 µm/mK	Borealis Method
Charpy Impact Strength, notched (23 °C)	2,5 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	1,2 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	0,6 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, unnotched (23 °C)	38 kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Impact Strength, unnotched (-20 °C)	15 kJ/m <sup>2</sup>	ISO 179/1eU
Izod Impact Strength, notched (23 °C)	4 kJ/m <sup>2</sup>	ISO 180/1A
Izod Impact Strength, notched (-20 °C)	2,1 kJ/m <sup>2</sup>	ISO 180/1A
Hardness, Ball Indentation 132 N/10 s	93 MPa	ISO 2039

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

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## Application Related Tests

Property	Typical Value <small>Data should not be used for specification work</small>	Test Method
Fogging (100 °C, 16 h)	0,5 mg	DIN 75201
Mould average Shrinkage (disk) <sup>1</sup>	1,1 %	Borealis Method

<sup>1</sup> VALUES MAY ONLY BE USED AS INDICATION, AND SHOULD NOT BE USED DIRECTLY IN MOULD DESIGN WITHOUT PRIOR VALIDATION

## 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 approximately 2h at 80°C. Following parameters should be used as guidelines:

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

### Storage

**MS64T20** should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

### Safety

The product is not classified as a dangerous preparation.

Please see our Safety Data Sheet for details on various aspects of safety of the product, for more information contact your Borealis representative.

### Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our Safety Data Sheet for details on various aspects of recovery and disposal of the product.

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**MS64T20**

**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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