Polypropylene

MSC65T20

Polypropylene Compound 20% Talc Filled

Description

MSC65T20 is a 20% Talc filled grade intended for injection moulding.

MSC65T20 has been developed especially for the car industry, to be used in interior parts.

Applications

- Automotive interior parts

Physical Properties**

		Typical Value*	Unit	Test Method
Density		1050	kg/m^3	ISO 1183
Melt Flow Rate	(230ºC/2.16 kg)	12	g/10 min	ISO 1133
Melt Flow Rate	(230ºC/5.0 kg)	50	g/10 min	ISO 1133
Flexural Modulus	(2 mm/min)	2600	MPa	ISO 178
Tensile Stress at Yield	(50 mm/min)	28	MPa	ISO 527-2
Tensile Strain at Yield	(50 mm/min)	3.9	MPa	ISO 527-2
Charpy Impact Strength, notched	(+23ºC)	4.2	kJ/m^2	ISO 179/1eA
Charpy Impact Strength, notched	(-20ºC)	2.3	kJ/m^2	ISO 179/1eA
Charpy Impact Strength, unnotched	(+23ºC)	71	kJ/m^2	ISO 179/1eU
Charpy Impact Strength, unnotched	(-20ºC)	30	kJ/m^2	ISO 179/1eU
Hardness, Ball Indentation	H385/30	76	MPa	ISO 2039
Heat Deflection Temperature	(0.45 MPa)	132	ºC	ISO 75-2
Heat Deflection Temperature	(1.80 MPa)	64	ºC	ISO 75-2
Vicat Softening Temperature	A (10 N)	150	ºC	ISO 306
Vicat Softening Temperature	B (50 N)	80	ºC	ISO 306

* Data should not be used for specification work

** Values determined on standard injection moulded specimens conditioned at 23ºC and 50% relative humidity.

Application Related Tests

	Typical Value*	Unit	Test Method
Fogging (100ºC/3h)	93.5	%	DIN 75201
Fogging (100ºC/16h)	1.0	mg	DIN 75201
Emission	45	µg C/g	VDA 277
Mould Shrinkage	1.2	%	Borealis Method

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BOREALIS

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Processing Guidelines

MSC65T20 is recommended to pre-dry before processing. A guideline is to dry the material 3 hours at 80ºC.

MSC65T20 is easy to process with standard injection moulding machines. Following moulding parameters should be used as guidelines:

Melt Temperature	210 - 260ºC
Mould Temperature	30 - 50ºC
Injection Speed	Medium
Holding Pressure	50 - 70% of the injection pressure

Storage and Handling

MSC65T20 should be stored in dry conditions at temperatures below 50ºC 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

MSC65T20 is not classified as a dangerous preparation.

Dust and fines from the product carry a risk of dust explosion. All equipment should be properly earthed. Inhalation of dust should be avoided as it may cause irritation of the respiratory system. Small amounts of fumes are generated during processing of the product. Proper ventilation is therefore required.