



Polypropylene

SC101

Polypropylene Compound, Mineral Filled

Description

SC101 is a 20% mineral filled polypropylene compound intended for injection moulding.

Applications

Air ducts

Appliances

Special features

Very good stiffness and impact balance
Very good dimensional stability

Very good heat stabilised
Very good chemical resistance

Physical Properties

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

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (23 °C)	1060 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	10 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	2.600 MPa	ISO 178
Tensile Strain at Yield (50 mm/min) (23 °C)	5 %	ISO 527-2
Tensile Stress at Yield (50 mm/min) (23 °C)	30 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (1,8 MPa)	70 °C	ISO 75-2
Charpy Impact Strength, unnotched (23 °C)	35 kJ/m ²	ISO 179/1eU
Izod Impact Strength, notched (23 °C)	3,5 kJ/m ²	ISO 180/1A
Hardness, Rockwell (R-scale)	95	ISO 2039-2

Combustion Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Flammability at thickness 1 mm	Max100 mm/min	ISO 3795

Processing Techniques

The actual conditions will depend on the type of equipment used.

SC101 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 moulding parameters should be used as guidelines:

Mass temperature	200 - 240 °C
Holding pressure	50-70% of injection

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Mould temperature
Injection speed

pressure
20 - 40 °C
Medium to high

Storage

SC101 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 dangerous. Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal 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.

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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