



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 Data should not be used for	Test Method 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 (8-scale)	95	ISO 2039-2	

Combustion Properties

Property	Typical Value Data should not be used for specifica	Test Method ation 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.

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