



Polypropylene Compound, Mineral Filled

## **Description**

RC101 is a 20% mineral filled polypropylene compound intended for injection moulding.

### **Applications**

**RC101** has been developed especially for the car industry to be used in automotive interior parts.

Interior trims Automotive interior applications

# **Special features**

Very good combination of impact, stiffness and surface aesthetics

# **Physical Properties**

Property	Typical Value Data should not be used for	Test Method specification work	
Density	1050 kg/m³	ISO 1183	
Melt Flow Rate (230 °C/2,16 kg)	23 g/10min	ISO 1133	
Flexural Modulus (2 mm/min)	3.000 MPa	ISO 178	
Flexural Strength	50 MPa	ISO 178	
Tensile Modulus (1 mm/min) (23 °C)	3.200 MPa	ISO 527-2	
Tensile Strain at Yield (50 mm/min) (23 °C)	7 %	ISO 527-2	
Tensile Stress at Yield (50 mm/min) (23 °C)	33 MPa	ISO 527-2	
Heat Deflection Temperature Edgewise (0,45 MPa)	130 °C	ISO 75-2	
Heat Deflection Temperature Edgewise (1,80 MPa)	70 °C	ISO 75-2	
Vicat softening temperature B50,	95 °C	ISO 306	
Charpy Impact Strength, notched (23 °C)	3 kJ/m²	ISO 179	
Izod Impact Strength, notched (23 °C)	4 kJ/m²	ISO 180/1A	
Hardness, Rockwell (R-scale)	102	ISO 2039-2	

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

# **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.

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RC101 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

Holding pressure 30 - 60 MPa

Back pressure Low to medium

Mould temperature 20 - 40 °C

Screw speed Low to medium

Flow front speed 100 - 200 mm/s

### Storage

**RC101** 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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#### **Disclaimer**

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