Polypropylene

RB363

Polypropylene Compound, Mineral Filled

Description

RB363 is a 20% mineral filled polypropylene compound intended for injection moulding.

Applications

RB363 has been developed especially for the automotive industry.

Automotive exterior applications

Automotive interior applications

Special features

Good stiffness
Good scratch resistance

Excellent surface appearance

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	1060 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	22 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	2.700 MPa	ISO 178
Flexural Strength	45 MPa	ISO 178
Tensile Stress at Yield (50 mm/min) (23 °C)	30 MPa	ISO 527-2
Tensile Stress at Break (50 mm/min) (23 °C)	8 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (0,45 MPa)	120 °C	ISO 75-2
Heat Deflection Temperature Edgewise (1,80 MPa)	70 °C	ISO 75-2
Vicat softening temperature B50,	90 °C	ISO 306
Charpy Impact Strength, notched (23 °C)	2,5 kJ/m²	ISO 179/1eA
Charpy Impact Strength, unnotched (23 °C)	25 kJ/m²	ISO 179/1eU
Izod Impact Strength, notched (23 °C)	2,5 kJ/m²	ISO 180/1A

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 Data should not be used for specification work	Test Method
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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RB363 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	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

Storage

RB363 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

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.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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