Polypropylene

QB370

Polypropylene Compound, Mineral Filled

Description

QB370 is a 30% mineral filled polypropylene compound intended for injection moulding.

Applications

QB370 has been developed especially for the white goods industry.

Appliances

Special features

High stiffness
High flow
Excellent dimensional stability

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 specification work	Test Method
Density (23 °C)	1110 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	50 g/10min	ISO 1133
Flexural Modulus (2 mm/min) [1]	2.200 MPa	ISO 178
Flexural Strength	42 MPa	ISO 178
Tensile Stress at Yield (50 mm/min)	25 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (1,80 MPa)	58 °C	ISO 75-2
Izod Impact Strength, notched (23 °C)	3 kJ/m²	ISO 180/A
Izod Impact Strength, unnotched (23 °C)	25 kJ/m²	ISO 180/1U

[1] Compound

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.

QB370 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:

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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

QB370 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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