Polypropylene

QB377

Polypropylene Compound, Mineral Filled

Description

QB377 is a 12% mineral filled polypropylene compound intended for injection moulding.

Applications

QB377 has been developed especially for the white goods industry.

Special features

High flow	High stiffness

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)	992 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	50 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.650 MPa	ISO 178
Flexural Strength	40 MPa	ISO 178
Tensile Strain at Yield (50 mm/min) (23 °C)	5,5 %	ISO 527-2
Tensile Stress at Yield (50 mm/min) (23 °C)	30 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (1,8 MPa)	55 °C	ISO 75-2
Izod Impact Strength, notched (23 °C)	3 kJ/m²	ISO 180/1A
Hardness, Shore D	76	ISO 868

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.

QB377 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:

Feeding temperature	40 - 80 °C
Mass temperature	220 - 260 °C
Back pressure	Low to medium

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Holding pressure	30 - 60 MPa
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

Storage
QB377 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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