



Polypropylene Bormed™ RF830MO

Description

Bormed RF830MO is a specially modified transparent polypropylene random copolymer with high meltflow. This polymer grade is intended for production of medical and medical-related articles. It is characterized by easy processability, high transparency, high gloss and good stiffness-impact balance. In addition it can be sterilized with gamma radiation and has an excellent chemical resistance.

In addition to its good physical properties and excellent transparency, this grade also yields products with good printability. Products moulded from this grade and radiated with the dose of 25 kGy have a shelf-life of 5 years, if stored below 40°C.

Applications

Needle hubs
Urine tubes
Blood tubes

Catheter connections
Caps and closures
Pipette tips and other laboratory disposable

Special features

Good chemical resistance
Good physical properties
Good printability
Good stiffness

Good impact strength
Improved gloss and excellent transparency
High chemical resistance
Easy processability

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	905 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	20 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.150 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	12 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	28 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa) ¹	80 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	6 kJ/m ²	ISO 179/1eA
Hardness, Rockwell (R-scale)	90	ISO 2039-2

¹ Measured on injection moulded specimens acc. to ISO 1873-2

Processing Techniques

Bormed RF830MO is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

Melt temperature	220 - 250 °C	
Holding pressure	200 - 500 bar	Minimum to avoid sink marks.



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Mould temperature
Injection speed

30 - 40 °C
Medium to high

Shrinkage 1 - 2 %, depending on wall thickness and moulding parameters

Storage

Bormed RF830MO 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 a dangerous preparation.

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.

Please see our Safety Data Sheet for details on various aspects of safety, recovery and disposal of the product, for more information contact your Borealis representative.

Related Documents

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

- Safety Data Sheet
- Recovery and disposal of polyolefins
- Information on emissions from processing and fires
- Statement on compliance to regulations on medical use
- Statement on compliance to food contact regulations
- Statement on polymer additives and BSE
- Statement on chemicals, regulations and standards