Polypropylene

Bormed™ RF825MO

Description

Bormed RF825MO 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 ethylene oxide or steam and has an excellent chemical resistance.

In addition to its good physical properties and excellent transparency, this grade also yields products with good printability.

Applications

Needle hubs
Blood tubes
Urine tubes
Catheter connections
Caps and closures
Laboratory disposable

Special features

Easy processability
Improved gloss and excellent transparency
Very good stiffness and impact balance
High gloss
High chemical resistance
Good printability

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	905 kg/m3	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/m²	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 RF825MO 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.
Mould temperature	30 - 40 °C	
Injection speed	Medium to high	

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

Storage

Bormed RF825MO 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 polymer additives and BSE
Statement on chemicals, regulations and standards