



Polypropylene

Bormed™ RJ880MO

Description

Bormed RJ880MO is a resin intended for evaluation for use in Healthcare applications.

Bormed RJ880MO is a specially modified highly-transparent polypropylene random copolymer with very high melt flow rate. It is designed for high-speed injection moulding and contains nucleating agent and demoulding additives. Additivation has been optimized to provide good antistatic and demoulding properties without blooming or plate-out problems. This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Products originating from this grade have excellent transparency, good organoleptic properties, good balance of stiffness and impact strength at ambient temperatures.

CAS-No. 9010-79-1

Applications

Bormed RJ880MO has been evaluated according to different regulations and norms. Typical applications are mentioned below for Medical devices or Pharmaceutical & Diagnostic packaging. However, Borealis should be consulted for final approval to evaluate the use of Bormed RJ880MO .

Lids
Square containers

Square boxes
Closures

This grade may only be used for the applications listed in the Product Datasheet and only to the extent that the application is within the scope of the tests set out in the Statement on Compliance to Regulations on Medical Use for that grade. If an application is not listed in the Product Datasheet, the grade can be used for such application only after express written consent of the Borealis Marketing Manager, Healthcare. Borealis prohibits the use of any healthcare grade product in an implantable device that is introduced into the human body by surgical intervention and that is intended to remain in place following surgical procedure.

Special features

Good flow behaviour
Very good clarity

stiffness and impact balance
Low blooming

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)	45 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.050 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	13 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	27 MPa	ISO 527-2
Heat Deflection Temperature (0,45 N/mm ²) ¹	73 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	5,0 kJ/m ²	ISO 179/1eA
Hardness, Rockwell (R-scale)	80	ISO 2039-2

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

Processing Techniques

Bormed RJ880MO is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

Melt temperature	210 - 260 °C	Minimum to avoid sink marks.
Holding pressure	200 - 500 bar	
Mould temperature	15 - 40 °C	
Injection speed	High	

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

Storage

Bormed RJ880MO 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.

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" / "Product safety information 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.

Recovery and disposal of polyolefins
Information on emissions from processing and fires
"Safety data sheet" / "Product safety information sheet"
Statement on compliance to food contact regulations

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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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