

**Polypropylene****Bormed™ RJ880MO****Description**

**Bormed RJ880MO** is a resin intended for evaluation for use in Healthcare applications. The current version of Bormed RJ880MO has been scheduled for deletion.

**Please use Bormed RJ880MO-12 and refer to associated documentation for new projects.**

In case of questions, please contact either your responsible Borealis Sales Manager and/or Application Development Engineer.

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. Additivition 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 and Diagnostic devices or Pharmaceutical packaging. However, Borealis should be consulted for final approval to evaluate the use of Bormed RJ880MO .

Lids  
Square containers

Square boxes  
Closures

The customer should be aware that Bormed products may only be used in applications which are pre-approved for evaluation by Borealis received in the form of a risk assessment form (RAF) review response. Without such pre-approval, no use of the grade shall be made. In case of doubt, the customer should seek pre-approval for evaluation from Borealis to proceed through their Sales or technical contact. Borealis makes no warranties beyond what is contained in this product datasheet and the customer is responsible for reading and accepting the disclaimer as contained in this product datasheet.

**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 <sup>3</sup>	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	45 g/10min	ISO 1133
Flexural Modulus	950 MPa	ISO 178
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
Melting temperature (DSC)	150 °C	ISO 11357-3



**Polypropylene**

**Bormed RJ880MO**

Heat Deflection Temperature (0,45 MPa)  
Charpy Impact Strength, notched (23 °C)

75 °C  
5,5 kJ/m²

ISO 75-2  
ISO 179/1eA

### Processing Techniques

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

Following parameters should be used as guidelines:

Melt temperature  
Holding pressure  
Mould temperature  
Injection speed

210 - 260 °C  
200 - 500 bar  
15 - 40 °C  
High

Minimum to avoid sink marks.

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. Following afore-mentioned conditions the material can be stored for a period of up to 3 years after production. 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.