



# Polypropylene Bormed™ RF830MO

## Description

**Bormed RF830MO** is a polypropylene random copolymer intended for evaluation for use in Healthcare applications.

This transparent grade is modified with a nucleating agent and is suitable for articles, which need post sterilisation with radiation. Bormed RF830MO is characterised by easy processability, high transparency, high gloss and a good stiffness-impact balance. Products moulded from this grade and radiated with the dose of 25 kGy have a shelf-life of 5 years, if properly stored. Material can also be sterilised with ethylene oxide and steam.

**CAS-No.** 9010-79-1

## Applications

**Bormed RF830MO** 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 RF830MO .

Disposable non pre-filled syringes	Laboratory disposable
Needle hubs	Diagnostic products
Catheter connections	Blood collection tubes

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

Radiation resistance	Easy processing
High transparency	

## Physical Properties

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Melt Flow Rate (230 °C/2,16 kg)	20 g/10min	ISO 1133
Flexural Modulus	1.100 MPa	ISO 178
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
Melting temperature (DSC)	150 °C	ISO 11357-3
Heat Deflection Temperature (0,45 MPa)	75 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	5 kJ/m <sup>2</sup>	ISO 179/1eA

Bormed is a trademark of the Borealis group.

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria  
 Telephone +43 1 224 00 0 | Fax +43 1 22 400 333  
 FN 269858a | CCC Commercial Court of Vienna | Website [www.borealisgroup.com](http://www.borealisgroup.com)

**Polypropylene**

# Bormed RF830MO

## 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.
Mould temperature	30 - 40 °C	
Injection speed	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. 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.

## Related Documents

For general and grade specific compliance documents please see Borealis' homepage [www.borealisgroup.com](http://www.borealisgroup.com) or ask your Borealis representative.

**Polypropylene****Bormed RF830MO****Issuer:**

Marketing Healthcare / Niya Petzold  
Product Management / Petar Doshev

**Disclaimer**

**The product(s) mentioned herein are not intended for use as medical implant material or implantable medical devices and we do not support their use for such applications.**

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.