



Polypropylene Bormed™ RF825MO

Description

Bormed RF825MO is a resin intended for evaluation for use in Healthcare applications. Bormed RF825MO is polypropylene random copolymer with high melt flow.

The current version of Bormed RF825MO has been scheduled for deletion.

Please use Bormed RF825MO-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.

Material is modified with a nucleating agent resulting in a fast crystallisation which gives possibilities for a fast cycle-time. Products produced from Bormed RF825MO are characterised with a very high transparency, high gloss and a good stiffness-impact balance. Material can be sterilised with ethylene oxide and steam.

CAS-No. 9010-79-1

Applications

Bormed RF825MO 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 RF825MO .

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

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

Easy processability	Good printability
Excellent transparency	

Physical Properties

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Density	905 kg/m ³	ISO 1183
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

**Polypropylene**

Bormed RF825MO

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

75 °C
6 kJ/m²

ISO 75-2
ISO 179/1eA

Processing Techniques

Bormed RF825MO is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

Melt temperature
Holding pressure
Mould temperature
Injection speed

220 - 250 °C
200 - 500 bar
30 - 40 °C
Medium to high

Minimum to avoid sink marks.

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. 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

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" / "Product safety information sheet"
Statement on chemicals, regulations and standards
Statement on compliance to food contact regulations
Statement on compliance to regulations on medical use
Statement on Origin of Raw Materials

**Polypropylene****Bormed RF825MO****Issuer:**

Marketing Advanced Products / Katinka Brodahl
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.