



Polypropylene Bormed™ SB815MO

Description

Bormed SB815MO is a resin intended for evaluation for use in Healthcare applications. SB815MO is a grade designed for production of bottles & ampoules for use in Pharmaceutical & Diagnostic applications manufactured via BFS, Extrusion or Injection blow moulding technologies. Final articles can be steam sterilised at 121 °C and are characterised by flexibility, allowing a good collapsibility and good optical properties. Haze of 0,5 mm and 1 mm injection moulded plaques is approximately 10 % and 28 % respectively.

CAS-No. 9010-79-1

Applications

Bormed SB815MO 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 SB815MO .

Bottles for IV-solutions

Ampoules for injectable solutions

Bottles for irrigation solutions

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 transparency
Sterilisable

Good flexibility

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) | 1,5 g/10min | ISO 1133 |
| Flexural Modulus | 425 MPa | ISO 178 |
| Tensile Modulus (1 mm/min) | 475 MPa | ISO 527 |
| Tensile Strain at Yield (50 mm/min) | 18 % | ISO 527 |
| Tensile Stress at Yield (50 mm/min) | 17 MPa | ISO 527 |
| Melting temperature (DSC) | 145 °C | ISO 11357-3 |
| Heat Deflection Temperature (0,45 MPa) | 55 °C | ISO 75-2 |
| Charpy Impact Strength, notched (23 °C) | 80 kJ/m ² | ISO 179/1eA |
| Charpy Impact Strength, notched (0 °C) | 9 kJ/m ² | ISO 179/1eA |

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Processing Techniques

The actual conditions will depend on the type of equipment used.

Bormed SB815MO is easy to extrude and can be used in all conventional blow-moulding machines

| | |
|------------------|--------------|
| Barrel | 170 - 200 °C |
| Die | 180 - 200 °C |
| Melt temperature | 170 - 190 °C |

This product is easy to process with standard injection moulding machines. Following moulding parameters should be used as guidelines:

| | | |
|-------------------|----------------------|------------------------------|
| Melt temperature | 210 - 250 °C | |
| Holding pressure | 200 - 500 bar | Minimum to avoid sink marks. |
| Mould temperature | 10 - 30 °C | |
| Injection speed | As high as possible. | |

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

Storage

Bormed SB815MO 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
General statement on compliance to food contact regulations
Statement on compliance to regulations on medical use
Statement on Origin of Raw Materials

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**Polypropylene****Bormed SB815MO****Issuer:**

Marketing Advanced Products / Paulo Cavacas
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.

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