



Polypropylene Bormed™ HG820MO

Description

Bormed HG820MO is a resin intended for evaluation for use in Healthcare applications.

Bormed HG820MO is a clarified homopolymer with an internal lubricant and typically used in injection moulding. Products produced from Bormed HG820MO are characterised by easy demoulding, controlled low friction and low warpage. Bormed HG820MO can be sterilised with ethylene oxide or steam.

Applications

Bormed HG820MO 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 HG820MO .

Disposable non pre-filled syringes
Laboratory disposable

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

Easy processing
Good 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)	28 g/10min	ISO 1133
Flexural Modulus (50 mm/min)	1.800 MPa	ISO 178
Tensile Modulus (50 mm/min)	1.900 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	7 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	40 MPa	ISO 527-2
Heat Deflection Temperature Flatwise (0,45 MPa)	100 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	2,6 kJ/m ²	ISO 179/1eA

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Processing Techniques

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

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Melt temperature range	210 - 260 °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 HG820MO 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. The products are suitable for recycling using modern methods of shredding and cleaning.

Related Documents

The following related documents are available, and represent various aspects of the product.

Recovery and disposal of polyolefins

Information on emissions from processing and fires

"Safety data sheet" / "Product safety information sheet"

Statement on chemicals, regulations and standards

Statement on polymer additives and BSE

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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.