Polypropylene
Bormed™ HJ875MO

Description
Bormed HJ875MO is a resin intended for evaluation for use in Healthcare applications.

Bormed HJ875MO is a high flow polypropylene Homopolymer. High flow enables lower cycle time, high injection rate and design of thin wall packaging. This grade is formulated for optimised extractables. Material can be sterilised with vapour (121 °C for 20 minutes) or EtO.

Applications
Bormed HJ875MO 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 HJ875MO .

Pipette tips
Laboratory disposable
Dosing units
Aerosol devices
Caps and closures

Pharmaceutical & diagnostic packaging in solid dose form or for oral and/or topical admistration
Bottles & Boxes as Packaging for pharmaceutical & diagnostic products

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
High flow
Low extractables

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	905 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	75 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.600 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	9 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	35 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa)	87 °C	ISO 75-2
Vicat softening temperature (10 N)	153 °C	ISO 306
Charpy Impact Strength, notched (23 °C)	1,8 kJ/m²	ISO 179/1eA

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Processing Techniques

This product is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

Melt temperature	220 - 260 °C	
Holding pressure	200 - 500 bar	Minimum to avoid sink marks.
Mould temperature	15 - 60 °C	
Injection speed	High	

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

Storage

Bormed HJ875MO 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. In-house production waste should be kept clean to facilitate direct recycling.

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.

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"
Recovery and disposal of polyolefins
Information on emissions from processing and fires
Statement on chemicals, regulations and standards
Statement on polymer additives and BSE
Statement on compliance to food contact regulations

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