



Polypropylene Bormed™ HD810MO

Description

Bormed HD810MO is a polypropylene homopolymer. This polymer grade is intended for production of medical and medical-related articles. In addition it can be sterilized with gamma radiation and has an excellent chemical resistance.

Products moulded from this grade and radiated with the dose of 25 kGy have a shelf-life of 5 years, if stored below 40°C.

Applications

Medical applications, to be sterilised by radiation

Special features

Easy processability
Good flow behaviour
Good physical properties

Good printability
Improved gloss and excellent transparency
Very good chemical resistance

Physical Properties

Property	Typical Value	Test Method
	Data should not be used for specification work	
Density	907 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	10 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.100 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	13 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	29,5 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa) ¹	90 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	4,5 kJ/m ²	ISO 179/1eA
Hardness, Rockwell (R-scale)	94	ISO 2039-2

¹ Measured on injection moulded specimens acc. to ISO 1873-2

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	30 - 40 °C	
Injection speed	Medium to high	

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

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Storage

Bormed HD810MO 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 a dangerous preparation.

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 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
- Recovery and disposal of polyolefins
- Information on emissions from processing and fires
- Statement on compliance to regulations on medical use
- Statement on polymer additives and BSE
- Statement on chemicals, regulations and standards



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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.

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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.

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