



Polypropylene BormedTM HD850MO

Description

Bormed HD850MO is a medium melt-flow-rate polypropylene homopolymer prepared by Borealis Nucleation Technology (BNT). This grade has exceptional dimensional stability and its high crystallization temperature allows for the reduction of cycle time. This polymer grade is intended for production of medical and medical-related articles.

Products from this grade are characterized by excellent clarity and balanced stiffness/impact properties. Due to its high heat deflection temperature, products made from this grade can be steam sterilized (121°C for 20 min).

Applications

Medical applications
Pharmaceutical & diagnostic packaging

Dosing units
Caps and closures

Special features

Very good stiffness and impact balance
Good clarity

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	910 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	8 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.800 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	7,5 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	38 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa) ¹	112 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	5,5 kJ/m ²	ISO 179/1eA
Hardness, Rockwell (R-scale)	105	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	Minimum to avoid sink marks.
Holding pressure	200 - 500 bar	
Mould temperature	15 - 60 °C	
Injection speed	High	

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

Bormed is a trademark of Borealis A/S, Denmark.



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Storage

Bormed HD850MO 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 chemicals, regulations and standards
- Statement on polymer additives and BSE
- Statement on compliance to food contact regulations
- Statement on compliance to regulations on medical use