

# Bormed<sup>™</sup> HF840MO

## Description

**Bormed HF840MO** is a polypropylene homopolymer intended for injection moulding. This grade is modified with internal lubricant for products requiring a low surface friction. and is characterized by easy processability, high transparency, controlled low friction, good physical properties, good printability and easy demoulding. In addition it can be sterilized with ethylene oxide or steam and has an excellent chemical resistance.

## **Applications**

Syringe barrels and needless covers Catheter connections

Medical valves

## **Special features**

Low friction Easy processability Good chemical resistance Good printability Improved gloss and excellent transparency

# **Physical Properties**

Property	Typical Value Data should not be used for specific	Test Method action work
Density	905 kg/m3	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	19 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.250 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	11 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	29,5 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa) <sup>1</sup>	85 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	3,5 kJ/m²	ISO 179/1eA
Hardness, Rockwell (R-scale)	93	ISO 2039-2

<sup>1</sup> 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	210 - 260 °C
Holding pressure	200 - 500 bar
Mould temperature	30 - 40 °C
Injection speed	Medium to high

Minimum to avoid sink marks.

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





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## Storage

**Bormed HF840MO** 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.

Recovery and disposal of polyolefins Information on emissions from processing and fires Safety Data Sheet Statement on compliance to regulations on medical use Statement on compliance to food contact regulations Statement on chemicals, regulations and standards Statement on polymer additives and BSE

