# Polypropylene
# Bormed™ BE860MO

## Description
**Bormed BE860MO** is a heterophasic copolymer. This grade is characterized by excellent impact strength even at low temperatures combined with high stiffness and good flow properties.

## Applications
Caps and closures
Pharmaceutical & diagnostic packaging

## Special features
Good impact strength
Good flow behaviour
High stiffness

## Physical Properties

| Property | | Typical Value<br>Data should not be used for specification work | Test Method |
|---|---|---|---|
| Density | | 902 kg/m3 | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | | 13 g/10min | ISO 1133 |
| Tensile Modulus (1 mm/min) | | 1.250 MPa | ISO 527-2 |
| Tensile Strain at Yield (50 mm/min) | | 6 % | ISO 527-2 |
| Tensile Stress at Yield (50 mm/min) | | 25 MPa | ISO 527-2 |
| Heat Deflection Temperature (0,45 N/mm²) [1] | | 85 °C | ISO 75-2 |
| Instrumented Falling Weight (0 °C) | Max Force | | ISO 6603-2 |
| | Total Penetration Energy | 35 J | |
| Instrumented Falling Weight (-20 °C) | Max Force | | ISO 6603-2 |
| | Total Penetration Energy | 25 J | |
| Charpy Impact Strength, notched (23 °C) | | 8 kJ/m² | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C) | | 4 kJ/m² | ISO 179/1eA |
| Hardness, Rockwell (R-scale) | | 86 | 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 moulding parameters should be used as guidelines:

| | | |
|---|---|---|
| Melt temperature | 230 - 260 °C | |
| Holding pressure | 200 - 500 bar | Minimum to avoid sink marks. |
| Mould temperature | 10 - 30 °C | |
| Injection speed | High | |

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



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## Storage

**Bormed BE860MO** 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 polymer additives and BSE
Statement on compliance to regulations on medical use
Statement on compliance to food contact regulations
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.

**Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.**

**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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