



# Polypropylene

## HB306MO

### Description

**HB306MO** is a low melt-flow-rate polypropylene homopolymer intended for compression moulding of caps and closures. This grade is designed for the caps and closures market and therefore contains a lubricant for an optimum opening torque of the cap. This grade combines a good balance of stiffness and impact strength with good processability and melt stability. Additives provide anti-static protection.

**CAS-No.** 9003-07-0

### Applications

Closures

### Special features

Good stiffness  
Good impact strength

Good processability  
Good melt stability

### Physical Properties

| Property                                       | Typical Value         | Test Method |
|------------------------------------------------|-----------------------|-------------|
| Data should not be used for specification work |                       |             |
| Density                                        | 905 kg/m <sup>3</sup> | ISO 1183    |
| Melt Flow Rate (230 °C/2,16 kg)                | 2 g/10min             | ISO 1133    |
| Flexural Modulus                               | 1.700 MPa             | ISO 178     |
| Tensile Modulus (50 mm/min)                    | 1.900 MPa             | ISO 527-2   |
| Tensile Strain at Yield (50 mm/min)            | 7,5 %                 | ISO 527-2   |
| Tensile Stress at Yield (50 mm/min)            | 39 MPa                | ISO 527-2   |
| Heat Deflection Temperature (0,45 MPa)         | 100 °C                | ISO 75-2    |
| Charpy Impact Strength, notched (23 °C)        | 5 kJ/m <sup>2</sup>   | ISO 179/1eA |

### Processing Techniques

The actual conditions will depend on the type of equipment used.

Following parameters should be used as guidelines:

Melt temperature 180 - 260 °C

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

 **Polypropylene**  
**HB306MO****Storage**

**HB306MO** 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 compliance to food contact regulations

**Disclaimer**

**The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications 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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