# Polypropylene
# BB125MO

## Description
**BB125MO** is a heterophasic copolymer. This grade is a low melt flow rate grade intended for blow moulding and sheet extrusion, and features extremely good processability with improved melt strength and melt stability. As all polypropylenes, this grade shows excellent stress-cracking and chemical resistances.

This polymer is one of the IMP (improved mechanical stability) grades, and is characterized by very high stiffness without any loss of impact strength even at low temperatures.

**CAS-No.** 9010-79-1

## Applications

Corrugated boards
Industrial chemicals

## Special features

Good melt strength
Good melt stability
Excellent stress crack resistance
Very high stiffness
High impact strength

## Physical Properties

| Property | Typical Value<br>Data should not be used for specification work | Test Method |
|---|---|---|
| Density | 905 kg/m³ | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | 1,3 g/10min | ISO 1133 |
| Melt Flow Rate (190 °C/5,0 kg) | 2,3 g/10min | ISO 1133 |
| Melt Flow Rate (230 °C/5,0 kg) | 6,0 g/10min | ISO 1133 |
| Flexural Modulus | 1.200 MPa | ISO 178 |
| Tensile Modulus (50 mm/min) | 1.300 MPa | ISO 527-2 |
| Tensile Strain at Yield (50 mm/min) | 5 % | ISO 527-2 |
| Tensile Stress at Yield (50 mm/min) | 25 MPa | ISO 527-2 |
| Heat Deflection Temperature (0,45 MPa) | 85 °C | ISO 75-2 |
| Charpy Impact Strength, notched (23 °C) | 50 kJ/m² | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C) | 7 kJ/m² | ISO 179/1eA |

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

BB125MO is easy to extrude and can be used in all conventional blow-moulding machines

| | |
|---|---|
| Barrel | 190 - 220 °C |
| Die | 180 - 220 °C |
| Melt temperature | 180 - 220 °C |

HongRong Engineering Plastics Co.,Ltd.
Head Office Tel. +85-2-6957-5415
Research Center Tel.+188 1699 6168

BOREALIS

# Polypropylene
# BB125MO

## Storage
**BB125MO** 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
Statement on polymer additives and BSE

HongRong Engineering Plastics Co.,Ltd.
Head Office Tel. +85-2-6957-5415
Research Center Tel.+188 1699 6168

# Polypropylene
# BB125MO

**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.

**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.**

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

HongRong Engineering Plastics Co.,Ltd.
Head Office Tel. +85-2-6957-5415
Research Center Tel.+188 1699 6168

BOREALIS