# PRODUCT DATA SHEET

26.03.2025 Ed.7

## Polypropylene

# BJ380MO

### Polypropylene Block Copolymer

## Description

BJ380MO is a very high melt flow heterophasic copolymer with high/medium impact strength and stiffness, which contains nucleating and antistatic additives and is designed for high-speed injection moulding.
BJ380MO is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage.
Components moulded with this grade have good demoulding properties and combine good stiffness, gloss, and antistatic properties with good low-temperature impact strength.

Cas No. 9010-79-1

## Typical characteristics

BJ380MO can be described with following typical characteristics:

- High impact strength
- High stiffness
- Good gloss
- Excellent antistatic properties

## Applications

BJ380MO is intended for following applications:

- Houseware containers
- Lids
- Thin wall containers
- Injection-moulded non-food applications

## Physical properties

| Property | Typical value * | Unit | Test method |
|---|---|---|---|
| Density | 905 | kg/m³ | ISO 1183-1 |
| Melt flow rate (230 °C/2.16 kg) | 80 | g/10min | ISO 1133-1 |
| Flexural modulus | 1200 | MPa | ISO 178 |
| Tensile modulus (1 mm/min) | 1300 | MPa | ISO 527-2 |
| Tensile stress at yield (50 mm/min) | 25 | MPa | ISO 527-2 |
| Tensile strain at yield (50 mm/min) | 5 | % | ISO 527-2 |
| Charpy impact strength, notched (23 °C) | 5 | kJ/m² | ISO 179-1/1eA |
| Charpy impact strength, notched (-20 °C) | 3.5 | kJ/m² | ISO 179-1/1eA |
| Heat deflection temperature B (0.45 MPa) | 90 | °C | ISO 75-2 |

* Data should not be used for specification work

## Processing techniques

BJ380MO is easy to process with standard injection moulding machines.

| Processing setting | Typical value/range |
|---|---|
| Melt temperature | 210 - 260 °C |
| Holding pressure [1] | 200 - 500 bar |
| Mould temperature | 20 - 50 °C |
| Injection speed | As high as possible |

# Polypropylene

# BJ380MO

[1] *Minimum to avoid sink marks.*

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

## Packaging and storage

BJ380MO should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

## Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

## Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency. Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

### 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.

Borealis AG | Trabrennstrasse 6-8 | A-1020 Vienna | Austria
Telephone: +43 1 22 400 0* | Fax: +43 1 22 400 333
Website www.borealisgroup.com



Manufacturer website: https://www.borealisgroup.com/