



# Polypropylene BJ380MO

## Description

**BJ380MO** is a very high melt flow heterophasic copolymer with high/medium impact strength and stiffness. This grade is designed for high-speed injection moulding and contains nucleating and antistatic additives.

This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Components moulded from 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

## Applications

|                      |          |
|----------------------|----------|
| Thin wall containers | Closures |
| Square containers    | Lids     |

## Special Features

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

## Physical Properties

| Property  | Typical Value         | Test Method |
|---|-----------------------|-------------|
| <small>Data should not be used for specification work</small> |                       |             |
| Density   | 905 kg/m <sup>3</sup> | ISO 1183    |
| Melt Flow Rate (230 °C/2,16 kg)                               | 80 g/10min            | ISO 1133    |
| Flexural Modulus  | 1.200 MPa             | ISO 178     |
| Tensile Modulus (1 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 N/mm <sup>2</sup> )         | 90 °C                 | ISO 75-2    |
| Charpy Impact Strength, notched (23 °C)                       | 5 kJ/m <sup>2</sup>   | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C)                      | 3,5 kJ/m <sup>2</sup> | ISO 179/1eA |

## Processing Techniques

BJ380MO 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        | Minimum to avoid sink marks. |
| Mould temperature | 20 - 50 °C           |                              |
| Injection speed   | As high as possible. |                              |



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

## Storage

**BJ380MO** 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.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the product.

## 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.

## 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"  
Statement on compliance to food contact regulations  
Statement on chemicals, regulations and standards  
Recovery and disposal of polyolefins  
Information on emissions from processing and fires



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