



# Polypropylene BE961MO

## Description

**BE961MO** is a heterophasic copolymer. This grade is characterized by an optimum combination of high stiffness, low creep and very high impact strength.

This grade uses Borealis Nucleation Technology (BNT) to increase productivity by cycle time reduction. BNT in combination with excellent stiffness and good flow properties creates a high potential for wall-thickness reduction. Products originating from this grade have very good demoulding properties, well-balanced mechanical properties, excellent dimension consistency with respect to different colors and good organoleptic properties.

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

## Applications

Crates and boxes  
Pails

Luggage  
Technical parts

## Special Features

High stiffness  
High impact strength

Low creep performance  
Good flow behaviour

## 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)	12 g/10min	ISO 1133
Flexural Modulus	1.250 MPa	ISO 178
Tensile Modulus (1 mm/min)	1.200 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	5,3 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	23 MPa	ISO 527-2
Heat Deflection Temperature (45 N/mm <sup>2</sup> ) <sup>1</sup>	92 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	13 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	6,5 kJ/m <sup>2</sup>	ISO 179/1eA

<sup>1</sup> Measured on injection moulded specimens acc. to ISO 1873-2

## Processing Techniques

This product 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.



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Mould temperature  
Injection speed

10 - 30 °C  
As high as possible.

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

## Storage

**BE961MO** 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.

Recovery and disposal of polyolefins  
Information on emissions from processing and fires  
"Safety data sheet" / "Product safety information sheet"  
Statement on compliance to food contact regulations



**Polypropylene**  
**BE961MO**

**Disclaimer**

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