



# Polypropylene BD950MO

## Description

**BD950MO** is a heterophasic copolymer. This grade is intended for compression and injection moulding. The main features of this grade are good stiffness and impact resistance, very good processability, high melt strength and extremely low tendency to stress whitening.

This grade uses Borealis Nucleation Technology (BNT) to increase productivity by cycle time reduction. As with all BNT grades, products exhibit excellent dimensional consistency with different colorants. In addition, this grade provides excellent creep resistance and optimum stiffness-impact balance. This polymer contains slip and anti-static additives to ensure good demoulding properties, low dust attraction and low friction coefficient which meets the industry standards for closure opening torques.

## Applications

Caps and closures for Beverage food and Industrial packaging

## Special features

Very good processability  
High creep performance

Very good stiffness and impact balance  
Low friction

## Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Melt Flow Rate (230 °C/2,16 kg)	8 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.500 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	4,5 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	27 MPa	ISO 527-2
Heat Deflection Temperature (0,45 N/mm <sup>2</sup> ) <sup>1</sup>	110 °C	ISO 75-2
Instrumented Falling Weight (0 °C)	Max Force	ISO 6603-2
	Total Penetration Energy	20 J
Instrumented Falling Weight (-20 °C)	Max Force	ISO 6603-2
	Total Penetration Energy	15 J
Charpy Impact Strength, notched (23 °C)	8,5 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	4,5 kJ/m <sup>2</sup>	ISO 179/1eA
Hardness, Rockwell (R-scale)	89	ISO 2039-2

<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.



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Following parameters should be used as guidelines:

Melt temperature	230 - 260 °C	
Holding pressure	200 - 500 bar	Minimum to avoid sink marks.
Mould temperature	10 - 30 °C	
Injection speed	As high as possible.	

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

## Storage

**BD950MO** 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 a dangerous preparation.

## 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 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  
 Statement on compliance to food contact regulations



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## 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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