



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.

CAS-No. 9010-79-1

Applications

Caps and closures for Beverage food and Industrial packaging

Special features

Very good processability
High creep performance

stiffness and impact balance
Low friction

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	905 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	7 g/10min	ISO 1133
Flexural Modulus	1.400 MPa	ISO 178
Tensile Modulus (50 mm/min)	1.500 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	6 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	30 MPa	ISO 527-2
Heat Deflection Temperature (0,45 N/mm ²) ¹	90 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	8 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	4 kJ/m ²	ISO 179/1eA

¹ 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 230 - 260 °C

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Holding pressure
Mould temperature
Injection speed

200 - 500 bar
10 - 30 °C
As high as possible.

Minimum to avoid sink marks.

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 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



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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.

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.

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