

Technical Data Sheet



Polypropylene BF970MO

Block Copolymer for Injection Moulding

DESCRIPTION

Bormod BF970MO is an heterophasic copolymer. This product is characterized by an optimum combination of very high stiffness and 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 made in this grade have very good demoulding properties, well-balanced mechanical properties and excellent dimension consistency with respect to different colors.

APPLICATIONS

Crates and boxes
Technical parts

Pails
Appliances

SPECIAL FEATURES

High stiffness
Good flow behaviour

High impact strength
Low warpage

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)	20 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.500 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	5 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	27 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa)	105 °C	ISO 75-2
Instrumented Falling Weight Max Force		ISO 6603-2
(0 °C) Total Penetration Energy	20 J	
Instrumented Falling Weight Max Force		ISO 6603-2
(-20 °C) Total Penetration Energy	15 J	
Charpy Impact Strength, notched (23 °C)	8,5 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	4,5 kJ/m ²	ISO 179/1eA
Izod Impact Strength, notched (23°C)	55 J/m	ASTM D 256
Izod Impact Strength, notched (-20°C)	33 J/m	ASTM D 256
Hardness, Rockwell (R-scale)	89	ISO 2039-2

* Measured on injection moulded specimens acc. to ISO 1873-2



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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.
Mould temperature	10 - 30 °C	
Injection speed	As high as possible.	

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

STORAGE

BF970MO 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.

More information on storage can be found in Safety Data Sheet for this product.

SAFETY

The product is not classified as a dangerous preparation.

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 Borouge representative.

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
Statement on chemicals, regulations and standards
Statement on compliance to food contact regulations

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.

Borouge 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 Borouge products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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