



Polypropylene Bormod™ BF970MO

Polypropylene for Injection Moulding

Description

Bormod BF970MO is an heterophasic copolymer (block copolymer) characterised by an optimum combination of very high stiffness and high impact strength.

Bormod BF970MO is formulated for very effective nucleation, Borealis Nucleation Technology (BNT). BNT in combination with excellent stiffness and good flow properties creates high potential for cycle time and wall thickness reduction.

Products moulded with **Bormod BF970MO** exhibit very good demoulding properties. That is combined with well-balanced mechanical properties, good organoleptical properties, and excellent dimension consistency with respect to different colours.

Applications

Bormod BF970MO is a new generation grade for very fast production of injection moulded items, meeting the increasing demand of wall thickness reduction in the packaging segment.

Main application areas are:

- Crates
- Boxes
- Pails
- Housewares
- Technical parts

Physical Properties**

		Typical Value*	Unit	Test Method
Density		905	kg/m ³	ISO 1183
Melt Flow Rate	(230°C/2.16 kg)	20	g/10 min	ISO 1133
Tensile Stress at Yield	(50 mm/min)	27	MPa	ISO 527-2
Tensile Strain at Yield	(50 mm/min)	5	%	ISO 527-2
Tensile Modulus	(1 mm/min)	1500	MPa	ISO 527-2
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
Hardness, Rockwell		89	R-scale	ISO 2039-2
Heat Deflection Temperature	(0.45 N/mm ²)	105	°C	ISO 75-2
Total Penetration Energy	(0°C)	20	J	ISO 6603-2
Total Penetration Energy	(-20°C)	15	J	ISO 6603-2

* Data should not be used for specification work.

** Mechanical properties determined on injection moulded specimens acc. to ISO 1873-2 (97), based on 7 days conditioning time.

Bormod is a trademark of Borealis A/S

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Polypropylene

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Processing Guidelines

The grade can be moulded on standard injection moulding machines. Following moulding parameters should be used as guidelines.

Melt temperature:	210-260°C
Injection speed:	Highest possible
Holding pressure:	Minimum required to avoid sink marks (normally 200-500 bars)
Mould temperature:	10-30°C
Shrinkage:	1.5-2% depending on wall thickness and moulding parameters

Storage and handling

Bormod 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 the product.

Safety

Bormod BF970MO is not classified as dangerous preparation.

Dust and fines from the product carry a risk of dust explosion. All equipment should be properly earthed. Inhalation of dust should be avoided as it may cause irritation of the respiratory system. Small amounts of fumes are generated during processing of the product. Proper ventilation is therefore required.

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.

A Safety Data Sheet is available on request. Please contact your Borealis representative for more details on various aspects of safety, recovery and disposal of the product.



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Related Documents

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal on the product:

Recovery and Disposal of Polyolefins
 Information on Emissions from Processing and Fires
 Safety Data Sheet, SDS
 Environmental Fact Sheet

Liability Statements on:

- Compliance to Food Contact Regulations

Disclaimer

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