Polypropylene

Bormod™ BE961MO

Polypropylene for Injection Moulding

Description

BE961MO is an heterophasic copolymer (block copolymer) characterised by an optimum combination of high stiffness, low creep and very high impact strength.

BE961MO 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 **BE961MO** 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

BE961MO 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
- Luggage
- Technical parts

Physical Properties**

		Typical Value*	Unit	Test Method
Density		905	kg/m^3	ISO 1183
Melt Flow Rate	(230°C/2.16 kg)	12	g/10 min	ISO 1133
Tensile Stress at Yield	(50mm/min)	23	Mpa	ISO 527-2
Tensile Strain at Yield	(50mm/min)	5.3	%	ISO 527-2
Tensile Modulus	(1mm/min)	1200	Mpa	ISO 527-2
Charpy Impact Strength, notched	(+23°C)	14	KJ/m²	ISO 179/1eA
Charpy Impact Strength, notched	(-20°C)	7.0	KJ/m²	ISO 179/1eA
Hardness, Rockwell		-	R-Scale	ISO 2039-2
Heat Deflection Temperature ***	(0045 N/mm²)	92	°C	ISO 75-2
Instrumental Falling Weight				
Total Penetration Energy	(0°C)	35	J	ISO 6603-2
Total Penetration Energy	(-20°C)	40	J	ISO 6603-2

* Data should not be used for specification work.
** Values determined on injection moulded specimens acc. to ISO 1873-2 (97), based on 7 days conditioning time.
*** Flatwise specimen orientation

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

Melt temperature	210 – 260ºC
Injection speed	Highest possible
Holding pressure	Minimum required to avoid sink marks (typical values are 200 - 500 bars)
Mould temperature	10 – 30ºC
Shrinkage	1.5 - 2%, depending on wall thickness and moulding parameters

Storage and handling
The product should be stored in dry conditions at temperatures below 50ºC 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
BE961MO 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 of 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

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