PRODUCT DATA SHEET

Polypropylene

BE961MO

Polypropylene for Injection Moulding

Description

BE961MO is a heterophasic copolymer. This grade is characterized by an optimum combination of high stiffness, low creep and very 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 originating from this grade have very good demoulding properties, well-balanced mechanical properties, excellent dimension consistency with respect to different colors and good organoleptic properties.

Cas No. 9010-79-1

Typical characteristics

BE961MO can be described with following typical characteristics:

- High stiffness
- High impact strength
- Low creep performance
- Good flow behaviour

Applications

BE961MO is intended for following applications:

- Boxes and crates
- Luggage
- Pails
- Technical parts

Physical properties

Property	Typical value *	Unit	Test method
Density	905	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	12	g/10min	ISO 1133-1
Flexural modulus	1250	MPa	ISO 178
Tensile stress at yield (50 mm/min)	23	MPa	ISO 527-2
Charpy impact strength, notched (23 °C)	13	kJ/m²	ISO 179-1/1eA
Charpy impact strength, notched (-20 °C)	6.5	kJ/m²	ISO 179-1/1eA
Tensile modulus (1 mm/min)	1200	MPa	ISO 527-2
Tensile strain at yield (50 mm/min)	5.3	%	ISO 527-2
Heat deflection temperature B (0.45 MPa)[1]	92	°C	ISO 75-2

* Data should not be used for specification work

[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:

Processing setting	Typical value/range
Melt temperature	210 - 260 °C
Holding pressure [2]	200 - 500 bar
Mould temperature	10 - 30 °C
Injection speed	As high as possible.

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[2] *Minimum to avoid sink marks.*

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

Packaging and storage

BE961MO should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency. Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

Borealis AG | Trabrennstrasse 6-8 | A-1020 Vienna | Austria
Telephone: +43 1 22 400 0* | Fax: +43 1 22 400 333
Website www.borealisgroup.com