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PRODUCT DATA SHEET

Polypropylene

BorPure RJ377MO

Polypropylene Random Copolymer

Description

BorPure RJ377MO is a specially modified high MFR transparent polypropylene random copolymer based on proprietary Borealis Nucleation Technology (BNT), with an excellent organoleptic performance. No tainting of taste & odour of food products and a faster crystallization speed offer benefits towards all parts of the value chain. It is designed for high-speed injection moulding and contains nucleating and demoulding additives.

Cas No. 9010-79-1

Typical characteristics

BorPure RJ377MO can be described with following typical characteristics:

- Easy processing
- Excellent organoleptic properties
- Fast crystallization speed
- Good stiffness and impact balance
- Very good transparency

Applications

BorPure RJ377MO is intended for following applications:

- Caps and closures
- Pails
- Houseware
- Thin wall containers
- Lids

Physical properties

Property	Typical value *	Unit	Test method
Density	905	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	45	g/10min	ISO 1133-1
Flexural modulus	1100	MPa	ISO 178
Tensile modulus (1 mm/min)	1100	MPa	ISO 527-2
Tensile stress at yield (50 mm/min)	28	MPa	ISO 527-2
Tensile strain at yield (50 mm/min)	12	%	ISO 527-2
Charpy impact strength, notched (23 °C)	4	kJ/m²	ISO 179-1/1eA
Heat deflection temperature B (0.45 MPa) [1]	75	°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

BorPure RJ377MO is easy to process with standard injection moulding machines.

Processing setting	Typical value/range
Melt temperature	210 - 260 °C
Holding pressure [2]	200 - 500 bar
Mould temperature	15 - 40 °C
Injection speed	High

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[2] *Minimum to avoid sink marks*

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

Packaging and storage

BorPure RJ377MO 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.

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.
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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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