

Polypropylene

BorPure™ RJ378MO**Polypropylene Random Copolymer for Injection Moulding****Description**

BorPure RJ378MO is a specially modified high MFR transparent polypropylene random copolymer based on proprietary Borealis Nucleation Technology (BNT), combining outstanding organoleptic performances (low taste, low odour) together with high flowability making it ideal solution for thin walled packaging and houseware dedicated for food contact applications. BorPure RJ378MO offers fast crystallization speed together with high transparency with a tinge of blue delivering benefits towards all parts of the value chain. This grade, designed for high-speed injection moulding, contains nucleating and demoulding additives.

Cas No. 9010-79-1

Typical characteristics

BorPure™ RJ378MO can be described with following typical characteristics:

Easy processing	Excellent organoleptic properties
Fast crystallisation speed	Good stiffness and impact balance
Outstanding aesthetics & transparency with tinge of blue	

Applications

BorPure™ RJ378MO is intended for following applications:

Caps and closures	Pails
Houseware	Thin wall containers
Lids	
Transparent food containers	
Squared containers	

Physical properties

Property	Typical value *	Unit	Test method
Density	905	kg/m ³	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/m ²	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 RJ378MO is easy to process with standard injection moulding machines

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Processing setting	Typical value/range
Melt temperature	220 - 260 °C
Holding pressure ²	200 - 500 bar
Mould temperature	15 - 40 °C
Injection speed	High

² Minimum to avoid sink marks

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

Packaging and storage

BorPure™ RJ378MO 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 on our website www.borealisgroup.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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