



# Polypropylene BorPure™ RJ766MO

## Description

**BorPure RJ766MO** 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

## Applications

Pails  
Square containers

House ware and thin wall packaging  
Closures

## Special features

Excellent organoleptic properties  
Very good transparency

Good stiffness and impact balance

## Physical Properties

| Property                                                           | Typical Value         | Test Method |
|--------------------------------------------------------------------|-----------------------|-------------|
| Data should not be used for specification work                     |                       |             |
| Density                                                            | 905 kg/m <sup>3</sup> | ISO 1183    |
| Melt Flow Rate (230 °C/2,16 kg)                                    | 70 g/10min            | ISO 1133    |
| Flexural Modulus                                                   | 1.050 MPa             | ISO 178     |
| Tensile Modulus (50 mm/min)                                        | 1.100 MPa             | ISO 527-2   |
| Tensile Strain at Yield (50 mm/min)                                | 12 %                  | ISO 527-2   |
| Tensile Stress at Yield (50 mm/min)                                | 28 MPa                | ISO 527-2   |
| Heat Deflection Temperature (0,45 N/mm <sup>2</sup> ) <sup>1</sup> | 75 °C                 | ISO 75-2    |
| Charpy Impact Strength, notched (23 °C)                            | 4,5 kJ/m <sup>2</sup> | ISO 179/1eA |

<sup>1</sup> Measured on injection moulded specimens acc. to ISO 1873-2

## Processing Techniques

BorPure RJ766MO is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

|                   |               |                              |
|-------------------|---------------|------------------------------|
| Melt temperature  | 210 - 260 °C  | Minimum to avoid sink marks. |
| Holding pressure  | 200 - 500 bar |                              |
| Mould temperature | 15 - 40 °C    |                              |
| Injection speed   | High          |                              |

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

HongRong Engineering Plastics Co.,Ltd.  
Head Office Tel. +85-2-6957-5415  
Research Center Tel.+188 1699 6168

**Polypropylene****BorPure RJ766MO****Storage**

**BorPure RJ766MO** 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 this product.

**Safety**

The product is not classified as dangerous.

**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.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

**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.**

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

**Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.**

**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.**

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

HongRong Engineering Plastics Co.,Ltd.  
Head Office Tel. +85-2-6957-5415  
Research Center Tel.+188 1699 6168