PRODUCT DATA SHEET

# POLYPROPYLENE RJ768MO

**POLYPROPYLENE RANDOM COPOLYMER FOR INJECTION MOULDING**

## DESCRIPTION

**RJ768MO** is a high MFR transparent polypropylene random ethylene copolymer based on proprietary Borstar Nucleation Technology (BNT), with an excellent organoleptic performance, Additivation has been enhanced to provide good antistatic properties, without blooming or plate-out, and with optimized molecular weight distribution giving low warpage. Products produced from this product have excellent transparency, gloss and fast crystallization speed which offers high productivity in production of transparent food packaging products. **RJ768MO** is designed for high-speed injection moulding and contains nucleating and de-moulding additives.

CAS No. 9010-79-1

## APPLICATIONS

Food Packaging
Transparent thin wall containers
Lids
Houseware articles
Media packaging

## SPECIAL FEATURES

Excellent organoleptic properties
Good stiffness and impact balance
Very good transparency
High melt flow
Sustainability solutions compatible

## PHYSICAL PROPERTIES

| Property | Typical Value | Test Method |
|---|---|---|
| Density | 900-910kg/m³ | ISO 1183 |
| Melt Flow Rate (230°C/2.16kg) | 70g/10min | ISO 1133 |
| Tensile Modulus (1mm/min) | 1200MPa | ISO 527-2 |
| Tensile Strain at Yield (50mm/min) | 12% | ISO 527-2 |
| Tensile Stress at Yield (50mm/min) | 29MPa | ISO 527-2 |
| Flexural Modulus | 1200MPa | ISO 178 |
| Charpy Impact Strength, notched (23°C) | 5.0kJ/m² | ISO 179/1eA |
| Heat Deflection Temperature(0,45MPa)** | 75°C | ISO 75-2 |
| Vicat Softening Temperature(Method A)*** | 124°C | ISO 306 |

*Data should not be used for specification work

***Measured on injection moulded specimens acc. to ISO 1873-2*
****Measured on injection moulded specimens, conditioned at 23°C and 50% Rel. Hum*

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Borouge is a joint venture of ADNOC and Borealis

INSPIRING TOMORROW

## PROCESSING CONDITIONS

**RJ768MO** is easy to process with standard injection moulding machines

Following parameters should be used as guidelines:

| | | |
|---|---|---|
| Melt temperature: | 220 - 250°C | |
| Holding pressure: | 200 - 500bar | As required to avoid sink marks. |
| Mould temperature: | 15 - 40°C | |
| Injection speed: | As high as possible | |

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

## STORAGE

**RJ768MO** 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.
More information on storage can be found in Safety Information Sheet (SIS) for this product

## SAFETY

The product is not classified as a hazardous preparation.
Please see our Safety Information Sheet (SIS) for details on various aspects of safety, recovery and disposal of the product, for more information contact your Borouge representative.

## 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.

## RELATED DOCUMENTS

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
Safety Information Sheet
Statement on chemicals, regulations and standards
Statement on compliance to food contact regulations

**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.

**Borouge 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.**
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