

# PRODUCT DATA SHEET **POLYPROPYLENE RE420MO** POLYPROPYLENE FANDOM COPOLYMER FOR IN JECT

POLYPROPYLENE RANDOM COPOLYMER FOR INJECTION MOULDING AND ISBM

# DESCRIPTION

**RE420MO** is a versatile designed transparent polypropylene random ethylene copolymer with medium melt flow rate intended for injection moulding and injection stretch blow moulding.

**RE420MO** is suitable for high speed injection moulding due to clarification and excellent demoulding properties. Articles originating from this product have excellent transparency, good organoleptic properties, good balance of stiffness and impact strength at ambient and refrigerator temperatures, low blooming, good denesting performance and excellent hinge properties.

## **APPLICATIONS**

Lids Transparent pails Customized / hinged closures

#### **SPECIAL FEATURES**

Very good stiffness and impact balance Very good gloss and transparency

# **PHYSICAL PROPERTIES**

# Property

Density
Melt Flow Rate (230°C/2.16kg)
Tensile Modulus (1mm/min)
Tensile Strain at Yield (50mm/min)
Tensile Stress at Yield (50mm/min)
Flexural Modulus
Flexural Modulus(by 1% secant)
Tensile Strain at Yield
Tensile Stress at Yield
Charpy Impact Strength, notched (23°C)
IZOD Impact Strength, notched (23°C)
Heat Deflection Temperature(0,45MPa)**
Vicat Softening Temperature(Method A)***
Haze(2mm)
Hardness, Rockwell(R-scale)

Food storage containers Sports and drinking bottles Houseware containers

Low blooming Excellent hinge properties

<b>Typical Value</b>	<b>Test Method</b>
900-910kg/m <sup>3</sup>	ISO 1183
13g/10min	ISO 1133
1100MPa	ISO 527-2
12%	ISO 527-2
28MPa	ISO 527-2
1150MPa	ISO 178
1100MPa	ASTM D790A
12%	ASTM D638
28MPa	ASTM D638
6kJ/m <sup>2</sup>	ISO 179/1eA
65J/m	ASTM D256
75°C	ISO 75-2

\*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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### **PROCESSING CONDITIONS**

**RE420MO** is easy to process with standard injection moulding -and injection stress blow moulding machines.

Following parameters should be used as guidelines:

Melt temperature:220 - 260°CHolding pressure:200 - 500barMould temperature:30 - 40°CInjection speed:HighShrinkage 1 - 2%, depending on wall thickness and moulding parameters

## STORAGE

**RE420MO** 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

#### **STANDARDS**

Borouge is certified to various ISO standards, please refer to Borouge.com for more information.

### 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.

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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.

No liability can be accepted in respect of the use of Borouge products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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