

## PRODUCT DATA SHEET

# POLYPROPYLENE

# RE420MO

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.

CAS No. 9010-79-1

### APPLICATIONS

Lids  
Transparent pails  
Customized / hinged closures

Food storage containers  
Sports and drinking bottles  
Houseware containers

### SPECIAL FEATURES

Very good stiffness and impact balance  
Very good gloss and transparency

Low blooming  
Excellent hinge properties

### PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Density	900-910kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (230°C/2.16kg)	13g/10min	ISO 1133
Tensile Modulus (1mm/min)	1100MPa	ISO 527-2
Tensile Strain at Yield (50mm/min)	12%	ISO 527-2
Tensile Stress at Yield (50mm/min)	28MPa	ISO 527-2
Flexural Modulus	1150MPa	ISO 178
Flexural Modulus(by 1% secant)	1100MPa	ASTM D790A
Tensile Strain at Yield	12%	ASTM D638
Tensile Stress at Yield	28MPa	ASTM D638
Charpy Impact Strength, notched (23°C)	6kJ/m <sup>2</sup>	ISO 179/1eA
IZOD Impact Strength, notched (23°C)	65J/m	ASTM D256
Heat Deflection Temperature(0,45MPa)**	75°C	ISO 75-2
Vicat Softening Temperature(Method A)***	124,5°C	ISO 306
Haze(2mm)	20%	ASTM D1003
Hardness, Rockwell(R-scale)	91	ISO 2039-2

\*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

## 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°C

Holding pressure: 200 - 500bar

Mould temperature: 30 - 40°C

Injection speed: High

Shrinkage 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

## 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.**

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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