PRODUCT DATA SHEET

POLYPROPYLENE RE425MO

POLYPROPYLENE RANDOM COPOLYMER FOR INJECTION MOULDING AND ISBM

DESCRIPTION

RE425MO is a versatile designed transparent polypropylene random ethylene copolymer with medium melt flow rate intended for injection moulding and injection stretch blow moulding.

RE425MO 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, excellent impact strength at ambient and refrigerator temperatures, low blooming, good denesting performance and excellent hinge properties.

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/m³	ISO 1183
Melt Flow Rate (230°C/2.16kg)	14g/10min	ISO 1133
Flexural Modulus	975MPa	ISO 178
Charpy Impact Strength, notched (23°C)	7kJ/m²	ISO 179/1eA
IZOD Impact Strength, notched (23°C)	75J/m	ASTM D256
Tensile Modulus (1mm/min)	1000MPa	ISO 527-2
Tensile Strain at Yield (50mm/min)	15%	ISO 527-2
Tensile Stress at Yield (50mm/min)	26MPa	ISO 527-2
Flexural Modulus(by 1% secant)	975MPa	ASTM D790A
Tensile Strain at Yield	15%	ASTM D638
Tensile Stress at Yield	26MPa	ASTM D638
Vicat Softening Temperature(Method A)***	122°C	ISO 306
Haze(2mm)	18%	ASTM D1003
Hardness, Rockwell(R-scale)	83	ISO 2039-2

*Data should not be used for specification work

****Measured on injection moulded specimens, conditioned at 23°C and 50% Rel. Hum*

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PROCESSING CONDITIONS

RE425MO 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

RE425MO 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

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