PRODUCT DATA SHEET

POLYPROPYLENE RB307MO

POLYPROPYLENE RANDOM COPOLYMER FOR BLOW MOULDING

DESCRIPTION

RB307MO is a random ethylene copolymer with good transparency and contact clarity, very good gloss and surface finish. This product also features outstanding impact strength.

Cas no. 9010-79-1

APPLICATIONS

Household and chemical containers such as detergents, cleaners, motor oils

Bottles for cosmetics and personal care products

Small containers for industrial chemicals

SPECIAL FEATURES

Very high melt strength
Excellent gloss and transparency
Good contact clarity
Very high impact strength
Good chemical resistance

PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Density	900-910kg/m³	ISO 1183
Melt Flow Rate (230°C/2.16kg)	1,5g/10min	ISO 1133
Tensile Modulus (1mm/min)	900MPa	ISO 527-2
Tensile Strain at Yield (50mm/min)	13%	ISO 527-2
Tensile Stress at Yield (50mm/min)	24MPa	ISO 527-2
Flexural Modulus	900MPa	ISO 178
Flexural Modulus(by 1% secant)	850MPa	ASTM D790A
Tensile Strain at Yield	13%	ASTM D638
Tensile Stress at Yield	24MPa	ASTM D638
Charpy Impact Strength, notched (23°C)	25kJ/m²(PB)	ISO 179/1eA
IZOD Impact Strength, notched (23°C)	300J/m	ASTM D256
Heat Deflection Temperature(0,45MPa)**	70°C	ISO 75-2
Vicat Softening Temperature(Method A)***	120°C	ISO 306
Haze(2mm)	16%	ASTM D1003
Hardness, Rockwell(R-scale)	75	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.*

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PROCESSING CONDITIONS

RB307MO is easy to extrude and can be used in all conventional blow moulding machines.

Following parameters should be used as guidelines:

Barrel temperature:	190 - 220°C
Die temperature:	200 - 220°C
Melt temperature:	200 - 220°C

STORAGE

RB307MO 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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