PRODUCT DATA SHEET

11.04.2025 Ed.2

Polypropylene

RB307MO

Polypropylene Random Copolymer

Description

RB307MO is a random copolymer with good transparency and contact clarity, very good gloss and surface finish.
This grade also features high heat distortion temperature.

Cas No. 9010-79-1

Typical characteristics

RB307MO can be described with following typical characteristics:

- High impact
- Good contact clarity
- Improved gloss and excellent transparency
- Optimal surface

Applications

RB307MO is intended for following applications:

- Cosmetic packaging
- Monolayer and multilayer bottles for food or cosmetic packaging
- Household and chemical containers such as detergents, cleaners, motor oils

Physical properties

Property	Typical value *	Unit	Test method
Density	905	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	1.5	g/10min	ISO 1133-1
Flexural modulus	850	MPa	ISO 178
Tensile modulus (1 mm/min)	900	MPa	ISO 527-2
Tensile stress at yield (50 mm/min)	24	MPa	ISO 527-2
Tensile strain at yield (50 mm/min)	13	%	ISO 527-2
Charpy impact strength, notched (23 °C)	20	kJ/m²	ISO 179-1/1eA
Heat deflection temperature B (0.45 MPa)	70	°C	ISO 75-2

* Data should not be used for specification work

Processing techniques

Following parameters should be used as guidelines:

Processing setting	Typical value/range
Barrel temperature	190 - 220 °C
Die temperature	180 - 220 °C
Melt temperature	180 - 220 °C

Packaging and storage

RB307MO should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

Polypropylene

RB307MO

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency.

Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

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.
Borealis 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 any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

Borealis AG | Trabrennstrasse 6-8 | A-1020 Vienna | Austria
Telephone: +43 1 22 400 0* | Fax: +43 1 22 400 333
Website www.borealisgroup.com