PRODUCT DATA SHEET

31.03.2025 Ed.4

Polypropylene

RB501BF

Polypropylene Random Copolymer

Description

RB501BF is a random copolymer.

The grade is suitable for cast, blown and double bubble film processes.

Cas No. 9010-79-1

RB501BF contains:

no	Antiblocking agent
no	Slip agent
yes	Calcium stearate

Typical characteristics

RB501BF can be described with following typical characteristics:

- Excellent processability
- Excellent optical properties
- Good shrink performance
- High mechanical strength
- Good sealing performance

Applications

RB501BF is intended for following applications:

- Food packaging
- Shrink film
- Label film
- Over wrap film

Physical properties

Property	Typical value *	Unit	Test method
Melt flow rate (230 °C/2.16 kg)	1.9	g/10min	ISO 1133-1
Flexural modulus [1]	700	MPa	ISO 178
Charpy impact strength, notched (23 °C)	8.5	kJ/m²	ISO 179-1/1eA
Melting temperature	141	°C	ISO 11357-3
Vicat softening temperature A50 (10 N)	125	°C	ISO 306

* Data should not be used for specification work

[1] *Measured on injection moulded specimens, conditioned at 23 °C and 50 % relative humidity.*

Packaging and storage

RB501BF 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.

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.

BOREALIS

Polypropylene

RB501BF

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.
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