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PRODUCT DATA SHEET

Polypropylene

RF365MO

Polypropylene Random Copolymer

Description

RF365MO is a specially modified highly-transparent polypropylene random copolymer with medium melt flow rate. It is designed for high-speed injection moulding and contains nucleating and demoulding additives.

Products originating from this grade have excellent transparency, very good organoleptic properties, good balance of stiffness and impact strength at ambient temperature, low blooming and good demoulding properties.

Cas No. 9010-79-1

Typical characteristics

RF365MO can be described with following typical characteristics:

Excellent antistatic properties	Good impact strength
Improved gloss and excellent transparency	High stiffness

Applications

RF365MO is intended for following applications:

Caps and closures	Thin wall containers

Physical properties

Property	Typical value *	Unit	Test method
Density	905	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	20	g/10min	ISO 1133-1
Flexural modulus	1100	MPa	ISO 178
Tensile modulus (1 mm/min)	1150	MPa	ISO 527-2
Tensile stress at yield (50 mm/min)	29	MPa	ISO 527-2
Tensile strain at yield (50 mm/min)	11	%	ISO 527-2
Charpy impact strength, notched (23 °C)	5.5	kJ/m²	ISO 179-1/1eA
Heat deflection temperature B (0.45 MPa) [1]	75	°C	ISO 75-2

* Data should not be used for specification work

[1] *Measured on injection moulded specimens acc. to ISO 1873-2*

Processing techniques

This product is easy to process with standard injection moulding machines. Following parameters should be used as guidelines:

Processing setting	Typical value/range
Melt temperature	210 - 260 °C
Holding pressure [2]	200 - 500 bar
Mould temperature	30 - 40 °C
Injection speed	High

[2] *Minimum to avoid sink marks*

Shrinkage 1 - 2 %, depending on wall thickness and moulding parameters.

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Packaging and storage

RF365MO 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.

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.

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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

Manufacturer website: https://www.borealisgroup.com/