



Polypropylene RF365MO

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

Applications

Closures Thin wall containers

Special Features

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

Physical Properties

| Property | Typical Value | Test Method |
|--|-----------------------|-------------|
| Data should not be used for specification work | | |
| Density | 905 kg/m ³ | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | 20 g/10min | ISO 1133 |
| Flexural Modulus | 1.100 MPa | ISO 178 |
| Tensile Modulus (1 mm/min) | 1.150 MPa | ISO 527-2 |
| Tensile Strain at Yield (50 mm/min) | 11 % | ISO 527-2 |
| Tensile Stress at Yield (50 mm/min) | 29 MPa | ISO 527-2 |
| Heat Deflection Temperature (0,45 N/mm ²) ¹ | 75 °C | ISO 75-2 |
| Charpy Impact Strength, notched (23 °C) | 5,5 kJ/m ² | ISO 179/1eA |

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 moulding parameters should be used as guidelines:

| | | |
|-------------------|---------------|------------------------------|
| Melt temperature | 210 - 260 °C | |
| Holding pressure | 200 - 500 bar | Minimum to avoid sink marks. |
| Mould temperature | 30 - 40 °C | |
| Injection speed | High | |

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



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Storage

RF365MO 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.

Safety

The product is not classified as dangerous.

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.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

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 data sheet" / "Product safety information sheet"
Recovery and disposal of polyolefins
Information on emissions from processing and fires
Statement on compliance to food contact regulations



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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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