Polypropylene
RF366MO

Description

RF366MO is a specially modified highly-transparent polypropylene random copolymer with medium melt flow rate. This grade is designed for high-speed injection moulding and contains nucleating and antistatic additives. The improved processability, even at low melt temperature, allows energy savings and faster cycle time.

Products originating from this grade have excellent transparency, good organoleptic properties, good balance of stiffness and impact strength at ambient temperatures. These properties, together with high gloss, make this grade excellent choice for household and packaging articles.

RF366MO can be also used in injection stretch blow moulding (ISBM).

CAS-No. 9010-79-1

Applications

RF366MO is intended for injection moulding applications requiring excellent transparency

Thin wall packaging
Houseware containers
Caps and closures
Sweet-boxes
Cosmetics
Appliances
Baby bottles

Special Features

Outstanding optical properties
Improved gloss and excellent transparency
Very good processability
Good organoleptic properties

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	905 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	20 g/10min	ISO 1133
Flexural Modulus	1.150 MPa	ISO 178
Tensile Modulus (1 mm/min)	1.200 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 MPa)	75 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	5,5 kJ/m²	ISO 179/1eA

Processing Techniques

This product is easy to process with standard injection moulding machines.

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Following moulding parameters should be used as guidelines:

Melt temperature	200 - 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

Storage

RF366MO 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.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the product.

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 data sheet" / "Product safety information sheet"
Statement on chemicals, regulations and standards
Statement on compliance to food contact regulations
Statement on BSE / TSE

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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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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.

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