



# **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	Test Method
Data should not be used for specification work		
Density	905 kg/m <sup>3</sup>	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/m <sup>2</sup>	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
Mould temperature	30 - 40 °C
Injection speed	High

Minimum to avoid sink marks.

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