PRODUCT DATA SHEET

Polypropylene
RJ470MO

Description

RJ470MO is a specially modified highly-transparent polypropylene random copolymer with very high melt flow rate. It is designed for high-speed injection moulding and contains nucleating and demoulding additives.

Additivation has been optimized to provide good antistatic and demoulding properties without blooming or plate-out problems. This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Products originating from this grade have excellent transparency and gloss, and good balance of stiffness and impact strength at ambient temperatures.

CAS-No. 9010-79-1

Applications

Lids
Square containers
Square boxes

Special Features

Good clarity
Good gloss
stiffness and impact balance

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)	70 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)	12 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	30 MPa	ISO 527-2
Heat Deflection Temperature (0,45 N/mm²) [1]	80 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	4 kJ/m²	ISO 179/1eA

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

Processing Techniques

RJ470MO is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

Melt temperature	200 - 250 °C	
Holding pressure	200 - 500 bar	Minimum to avoid sink marks.
Mould temperature	15 - 40 °C	

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Injection speed	High

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

Storage
RJ470MO 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.

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