PRODUCT DATA SHEET

Polypropylene
HJ325MO

Description

HJ325MO is a polypropylene homopolymer intended for injection moulding. Its very high melt flow makes it especially suitable for thin-wall packaging and products with long flow length. is designed for high-speed injection moulding and contains nucleating and antistatic additives. The additives are optimized to provide reduced tendency for mould plate-out.

This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Components moulded from this grade show good ejectability and combine good stiffness with good transparency and gloss, good antistatic properties and good impact strength at ambient temperatures.

CAS-No. 9003-07-0

Applications

Thin wall containers
Square containers
Rectangular and flat products, like lids and trays
Caps and closures

Special Features

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

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)	50 g/10min	ISO 1133
Flexural Modulus	1.500 MPa	ISO 178
Tensile Modulus (1 mm/min)	1.650 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	9 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	35 MPa	ISO 527-2
Heat Deflection Temperature (0,45 N/mm²) [1]	100 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	2 kJ/m²	ISO 179/1eA

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

Processing Techniques

HJ325MO is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

Melt temperature	210 - 250 °C	
Holding pressure	200 - 500 bar	Minimum to avoid sink marks.
Mould temperature	10 - 30 °C	
Injection speed	High	

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

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Storage
HJ325MO 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 Origin of Raw Materials
Statement on chemicals, regulations and standards