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# PRODUCT DATA SHEET

## Polypropylene

# HJ325MO

### Polypropylene Homopolymer

## 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. It 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

## Typical characteristics

HJ325MO can be described with following typical characteristics:

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

## Applications

HJ325MO is intended for following applications:

- Thin wall containers
- Caps and closures
- Houseware containers
- Lids

## Physical properties

| Property | Typical value * | Unit | Test method |
|---|---|---|---|
| Density | 905 | kg/m³ | ISO 1183-1 |
| Melt flow rate (230 °C/2.16 kg) | 50 | g/10min | ISO 1133-1 |
| Flexural modulus | 1500 | MPa | ISO 178 |
| Tensile modulus (1 mm/min) | 1650 | MPa | ISO 527-2 |
| Tensile stress at yield (50 mm/min) | 35 | MPa | ISO 527-2 |
| Tensile strain at yield (50 mm/min) | 9 | % | ISO 527-2 |
| Charpy impact strength, notched (23 °C) | 2 | kJ/m² | ISO 179-1/1eA |
| Heat deflection temperature B (0.45 MPa) [1] | 100 | °C | ISO 75-2 |

* Data should not be used for specification work

[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:

| Processing setting | Typical value/range |
|---|---|
| Melt temperature | 210 - 250 °C |
| Holding pressure [2] | 200 - 500 bar |
| Mould temperature | 10 - 30 °C |
| Injection speed | High |

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[2] *Minimum to avoid sink marks.*

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

## Packaging and storage

HJ325MO should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

## Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

## Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency.

Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

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