

## Polypropylene

# HF136MO

### Polypropylene Homopolymer

#### Description

HF136MO is a polypropylene homopolymer intended for injection moulding. This grade is characterized by a good combination of mechanical and flow properties.

This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage.

Cas No. 9003-07-0

#### Applications

HF136MO is intended for following applications:

Caps and closures

#### Physical properties

Property	Typical value *	Unit	Test method
Density	905	kg/m <sup>3</sup>	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	20	g/10min	ISO 1133-1
Flexural modulus (2 mm/min)	1300	MPa	ISO 178
Charpy impact strength, notched (23 °C)	3	kJ/m <sup>2</sup>	ISO 179-1/1eA
Heat deflection temperature B (0.45 MPa) <sup>1</sup>	85	°C	ISO 75-2
Tensile modulus (1 mm/min)	1500	MPa	ISO 527-2
Tensile strain at yield (50 mm/min)	9	%	ISO 527-2
Tensile stress at yield (50 mm/min)	34	MPa	ISO 527-2

\* Data should not be used for specification work

<sup>1</sup> Measured on injection moulded specimens acc. to ISO 1873-2

#### Processing techniques

This product is easy to process with standard injection moulding machines. Following parameters should be used as guidelines:

Processing setting	Typical value/range
Melt temperature	230 - 260 °C
Holding pressure <sup>2</sup>	200 - 500 bar
Mould temperature	10 - 30 °C
Injection speed	As high as possible.

<sup>2</sup> Minimum to avoid sink marks.

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

#### Packaging and storage

HF136MO 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.

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### 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](http://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](http://www.borealisgroup.com) and [www.borealiseverminds.com](http://www.borealiseverminds.com).

### Disclaimer

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