PRODUCT DATA SHEET

26.03.2025 Ed.11

Polypropylene

HG385MO

Polypropylene Homopolymer

Description

HG385MO is a polypropylene homopolymer intended for injection moulding. This product is characterized by excellent flow properties combined with a narrow molecular weight distribution well suited for low distortion products.
This grade uses Borealis Nucleation Technology (BNT) to increase productivity by cycle time reduction.
BNT in combination with excellent stiffness and good flow properties creates a high potential for wall-thickness reduction. As with all BNT grades, products originating from this grade offer excellent dimension consistency with respect to different colors.

Products moulded from this grade exhibit excellent dimension consistency combined with high stiffness.

Cas No. 9003-07-0

Typical characteristics

HG385MO can be described with following typical characteristics:

High stiffness	Excellent antistatic properties

Applications

HG385MO is intended for following applications:

Articles requiring good antistatic properties	Caps and closures

Physical properties

Property	Typical value *	Unit	Test method
Density	905	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	25	g/10min	ISO 1133-1
Flexural modulus	1700	MPa	ISO 178
Tensile modulus (1 mm/min)	1750	MPa	ISO 527-2
Tensile stress at yield (50 mm/min)	36	MPa	ISO 527-2
Tensile strain at yield (50 mm/min)	8	%	ISO 527-2
Charpy impact strength, notched (23 °C)	3.0	kJ/m²	ISO 179-1/1eA
Heat deflection temperature B (0.45 MPa) [1]	108	°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

HG385MO is easy to process with standard injection moulding machines. Following parameters should be used as guidelines:

Processing setting	Typical value/range
Melt temperature	220 - 260 °C
Holding pressure [2]	200 - 500 bar
Injection speed	As high as possible.

[2] *Minimum to avoid sink marks.*

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

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Packaging and storage

HG385MO 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.

Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.
To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.
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It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.
No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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