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PRODUCT DATA SHEET

Polypropylene

HE125MO

Polypropylene Homopolymer

Description

HE125MO is a polypropylene homopolymer intended for injection moulding. This grade is characterized by good flow properties and high stiffness and is specially suitable for high-speed injection moulding of articles demanding easy flow.

Its very good organoleptic properties allow this grade to be used with any masterbatch without discoloring problems.

Cas No. 9003-07-0

Typical characteristics

HE125MO can be described with following typical characteristics:

Good flow behaviour

High stiffness

Applications

HE125MO is intended for following applications:

Houseware containers

Thin wall packaging

Physical properties

Property	Typical value *	Unit	Test method
Density	905	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	12	g/10min	ISO 1133-1
Flexural modulus	1350	MPa	ISO 178
Tensile modulus (1 mm/min)	1550	MPa	ISO 527-2
Tensile stress at yield (50 mm/min)	34	MPa	ISO 527-2
Tensile strain at yield (50 mm/min)	9	%	ISO 527-2
Charpy impact strength, notched (23 °C)	3.5	kJ/m²	ISO 179-1/1eA
Heat deflection temperature B (0.45 MPa) [1]	88	°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

Processing setting	Typical value/range
Melt temperature	220 - 260 °C
Holding pressure [2]	200 - 500 bar
Mould temperature	20 - 40 °C
Injection speed	High

[2] *Minimum to avoid sink marks.*

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

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Packaging and storage

HE125MO 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.
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