

Polypropylene HE125MO

Product Data Sheet

Polypropylene HE125MO

Homopolymer for Injection Moulding

DESCRIPTION

HE125MO is a versatile polypropylene homopolymer intended for injection moulding.

This product shows very good stiffness and toughness

APPLICATIONS

Closures

House ware

Garden furniture

Compounds and master batches

SPECIAL FEATURES

Good flow behavior

High stiffness

PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Density	900-910 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	12 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1550 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	9 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	34.5 MPa	ISO 527-2
Flexural modulus (5 mm/min)	1550 MPa	ISO 178
Tensile Strain at Yield	9 %	ASTM D738
Tensile Stress at Yield	34.5 MPa	ASTM D738
Flexural modulus (by 1% secant)	1600 MPa	ASTM D790A

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Charpy Impact Strength, notched (23 °C)	3.5 kJ/m ²	ISO 179/1eA
IZOD Impact Strength, notched (23 °C)	35 J/m	ASTM D256
Heat Deflection Temperature (0,45 N/mm ²)*	88 °C	ISO 75-2
Vicat Softening Temperature (Method A) **	145 °C	ISO 306
Hardness, Rockwell (R-scale)	105	ISO 2039-2

*Data should not be used for specification work

* Measured on injection moulded specimens acc. to ISO 1873-2

** Measured on injection moulded specimens, conditioned at 23°C and 50% Rel. Hum.

PROCESSING TECHNIQUES

This product is easy to process with standard injection moulding machines.

Following moulding parameters should be used as guidelines:

Melt temperature	220 - 260 °C
Holding pressure	200 - 500 bar As required to avoid sink marks.
Mould temperature	20 - 40 °C
Injection speed	High

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

STORAGE

HE125MO should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odor generation and color changes and can have negative effects on the physical properties of this product.

More information on storage can be found in Safety Information Sheet (SIS) for this product.

SAFETY

The product is not classified as a hazardous preparation.

Please see our Safety Information Sheet (SIS) for details on various aspects of safety, recovery and disposal of the product, for more information contact your Borouge representative.

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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.

RELATED DOCUMENTS

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

Safety Information Sheet

Statement on chemicals, regulations and standards

Statement on compliance to food contact regulations

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.

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