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Polypropylene
HE125MO

Description

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

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

Applications

House ware and thin wall packaging
Articles with rather long and narrow flow lengths

Special features

Good flow behaviour
High stiffness

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	908 kg/m3	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	12 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.550 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
Heat Deflection Temperature (0,45 N/mm²) [1]	88 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	3,5 kJ/m²	ISO 179/1eA
Hardness, Rockwell (R-scale)	100	ISO 2039-2

[1] Measured on injection moulded specimens acc. to ISO 1873-2

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	Minimum to avoid sink marks.
Mould temperature	20 - 40 °C	
Injection speed	High	

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

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Storage
HE125MO should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation with resulting odour generation and colour changes.

Safety
The product is not classified as a dangerous preparation.

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.

Please see our Safety Data Sheet for details on various aspects of safety, recovery and disposal of the product, for more information contact your Borealis representative.

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 Data Sheet
Recovery and disposal of polyolefins
Information on emissions from processing and fires
Statement on compliance to food contact regulations

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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.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

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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