



Polypropylene HH450MO

Description

HH450MO is a polypropylene homopolymer intended for injection moulding.

This grade is especially suitable for high-speed injection moulding of articles demanding easy flow. The material has a narrow molecular weight distribution resulting in products with low warpage.

Applications

Pipette tips
Plungers for 3-part disposable syringes
Closures
Laboratory disposable

Bottles and containers for tablets
Bottles and containers for powder
Bottles and containers for granules

This grade may only be used for the applications listed in the Product Datasheet and only to the extent that the application is within the scope of the tests set out in the Statement on Compliance to Regulations on Medical Use for that grade. If an application is not listed in the Product Datasheet, the grade can be used for such application only after express written consent of the Borealis Marketing Manager, Healthcare.

Borealis prohibits the use of any healthcare grade product in an implantable device that is introduced into the human body by surgical intervention and that is intended to remain in place following surgical procedure.

Special features

Low viscosity
Low warpage

Low extractables

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	902 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	37 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.650 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
Heat Deflection Temperature	80 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	2 kJ/m ²	ISO 179/1eA

Processing Techniques

Following parameters should be used as guidelines:

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

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Melt temperature range
Holding pressure
Injection speed

220 - 260 °C
200 - 500 bar
High

Minimum to avoid sink marks.

Storage

HH450MO 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 dangerous. Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

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 data sheet" / "Product safety information sheet"

Recovery and disposal of polyolefins

Statement on chemicals, regulations and standards

Statement on polymer additives and BSE

Statement on compliance to food contact regulations

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