Polypropylene
HF955MO

Description

HF955MO is a very stiff polypropylene homopolymer. This grade combines unique Borstar reactor design with Borealis Nucleation Technology (BNT) to produce highly-crystalline polypropylene. This combination also results in unique balance of properties especially suited for high-speed injection moulding.

Products originating from this grade have excellent demoulding properties, very high stiffness, good transparency and gloss and good impact strength at ambient temperatures.

CAS-No.   9003-07-0

Applications

Caps and closures
Products with thicker wall sections requiring short cycle time

Rectangular and flat products, like lids and trays
Containers and products with medium to long flow length

Special features

Good stiffness
Good impact strength

Improved gloss and excellent transparency

Physical Properties

Property	Typical Value	Test Method
	Data should not be used for specification work	
Density	905 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	20 g/10min	ISO 1133
Flexural Modulus	2.000 MPa	ISO 178
Tensile Modulus (50 mm/min)	2.200 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	6 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	40 MPa	ISO 527-2
Heat Deflection Temperature (0,45 N/mm²) [1]	115 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	2,5 kJ/m²	ISO 179/1eA

[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 parameters should be used as guidelines:

Melt temperature	220 - 260 °C	
Holding pressure	200 - 500 bar	Minimum to avoid sink marks.
Mould temperature	15 - 60 °C	
Injection speed	High	

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

Storage
HF955MO should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

Safety
The product is not classified as dangerous.

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" / "Product safety information 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.

Recovery and disposal of polyolefins
Information on emissions from processing and fires
"Safety data sheet" / "Product safety information sheet"
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.

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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