



# 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/m <sup>3</sup>	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/mm <sup>2</sup> ) <sup>1</sup>	115 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	2,5 kJ/m <sup>2</sup>	ISO 179/1eA

<sup>1</sup> 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	Minimum to avoid sink marks.
Holding pressure	200 - 500 bar	
Mould temperature	15 - 60 °C	
Injection speed	High	

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# **Polypropylene** **HF955MO**

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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