



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. Components moulded from this grade show good ejectability and combine excellent stiffness with good transparency and gloss, very good colour, excellent organoleptic properties 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
Excellent organoleptic properties

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	905 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	20 g/10min	ISO 1133
Flexural Modulus	2.000 MPa	ISO 178
Tensile Modulus (1 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 ²) ¹	115 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	2,5 kJ/m ²	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	Minimum to avoid sink marks.
Holding pressure	200 - 500 bar	
Mould temperature	15 - 60 °C	
Injection speed	High	

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



Polypropylene HF955MO

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