



# **Polypropylene** **HG313MO**

## Description

**HG313MO** is a polypropylene homopolymer intended for injection moulding. Its high melt flow makes it especially suitable for products with long flow length. This grade is designed for high-speed injection moulding and contains nucleating, antistatic and slip additives.

This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Products originating from this grade have very good demoulding and anti-static properties, high stiffness, good transparency and gloss, and good impact strength at ambient temperatures.

**CAS-No.** 9003-07-0

## Applications

Thin wall containers  
Square containers

Rectangular and flat products, like lids and trays  
Caps and closures

## Special Features

High stiffness  
High impact strength

Excellent antistatic properties  
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)	30 g/10min	ISO 1133
Flexural Modulus	1.300 MPa	
Tensile Modulus (1 mm/min)	1.500 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	10 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	34 MPa	ISO 527-2
Heat Deflection Temperature (0,45 N/mm <sup>2</sup> ) <sup>1</sup>	90 °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

HG313MO is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

Melt temperature	210 - 250 °C	
Holding pressure	200 - 500 bar	Minimum to avoid sink marks.
Mould temperature	10 - 30 °C	



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Injection speed

High

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

## Storage

**HG313MO** 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.

"Safety data sheet" / "Product safety information sheet"

Recovery and disposal of polyolefins

Information on emissions from processing and fires

Statement on compliance to food contact regulations