



Polypropylene HH315MO

Description

HH315MO is a polypropylene homopolymer intended for injection moulding. Its high melt flow makes it especially suitable for products with long flow length. This grad 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 excellent demoulding properties, very high stiffness, good transparency and gloss and good impact strength at ambient temperatures.

Applications

Thin wall containers
Square containers
Rectangular and flat products, like lids and trays

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

Special features

Shows excellent antistatic performance
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	910 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	35 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.650 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	8 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	36 MPa	ISO 527-2
Heat Deflection Temperature (0,45 N/mm ²) ¹	105 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	2,5 kJ/m ²	ISO 179/1eA
Hardness, Rockwell (R-scale)	102	ISO 2039-2

¹ Measured on injection moulded specimens acc. to ISO 1873-2

Processing Techniques

HH315MO 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	15 - 60 °C	
Injection speed	High	



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

Storage

HH315MO 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 a dangerous preparation.

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 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
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.

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