PRODUCT DATA SHEET

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 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 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 Data should not be used for specification work	Test Method
Density	905 kg/m³	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/mm²) [1]	90 °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

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

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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.

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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.

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