PRODUCT DATA SHEET

Polypropylene
HG385MO

Description

HG385MO is a polypropylene homopolymer intended for injection moulding. This grade combines unique Borstar reactor design with Borealis Nucleation Technology (BNT) to produce highly-crystalline polypropylene. This product is characterized by excellent flow properties combined with a narrow molecular weight distribution well suited for low distortion products. This grade contains anti-static and slip additives, which result in short cycle time, good demoulding and low dust attraction.

Products moulded from this grade exhibit excellent dimension consistency combined with high stiffness.

CAS-No. 9003-07-0

Applications

Caps and closures

Items requiring good antistatic properties

Special Features

High stiffness

Excellent antistatic properties

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)	25 g/10min	ISO 1133
Flexural Modulus	1.700 MPa	ISO 178
Tensile Modulus (1 mm/min)	1.750 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/mm²) [1]	108 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	3 kJ/m²	ISO 179/1eA

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

Processing Techniques

HG385MO is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

Melt temperature	220 - 260 °C	
Holding pressure	200 - 500 bar	Minimum to avoid sink marks.
Mould temperature	10 - 30 °C	
Injection speed	As high as possible.	

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

Storage
HG385MO 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