

# PRODUCT DATA SHEET

# POLYPROPYLENE

# HG385MO

POLYPROPYLENE HOMOPOLYMER FOR INJECTION MOULDING

## DESCRIPTION

**HG385MO** is a polypropylene homopolymer intended for injection moulding. This product combines unique Borstar reactor design with Borstar 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 warpage products.

This product contains anti-static and slip additives, which result in short cycle time, easy demoulding and low dust attraction.

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

## APPLICATIONS

Caps and closures  
Appliances with great heat resistance  
Household articles

## SPECIAL FEATURES

High stiffness	Low warpage
Heat resistance	High gloss
Shows excellent antistatic performance	

## PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Density	900-910kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (230°C/2.16kg)	25g/10min	ISO 1133
Tensile Modulus (1mm/min)	1750MPa	ISO 527-2
Tensile Strain at Yield (50mm/min)	8%	ISO 527-2
Tensile Stress at Yield (50mm/min)	36MPa	ISO 527-2
Flexural Modulus	1700MPa	ISO 178
Tensile Strain at Yield	8%	ASTM D638
Tensile Stress at Yield	36MPa	ASTM D638
Flexural Modulus(by 1% secant)	1650MPa	ASTM D790A
Charpy Impact Strength, notched (23°C)	4kJ/m <sup>2</sup>	ISO 179/1eA
IZOD Impact Strength, notched (23°C)	35J/m	ASTM D256
Heat Deflection Temperature(0,45MPa)*	108°C	ISO 75-2
Hardness, Rockwell(R-scale)	107	ISO 2039-2

\*Data should not be used for specification work

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

## PROCESSING CONDITIONS

**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 - 500bar As required to avoid sink marks  
Mould temperature: 10 - 30°C  
Injection speed: As high as possible  
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. More information on storage can be found in Safety Information Sheet (SIS) for this product

## SAFETY

The product is not classified as a hazardous preparation. Please see our Safety Information Sheet (SIS) for details on various aspects of safety, recovery and disposal of the product, for more information contact your Borouge representative.

## 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.

## 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 Information Sheet  
Statement on chemicals, regulations and standards  
Statement on compliance to food contact regulations

## 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.

**Borouge makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.**

**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.**

No liability can be accepted in respect of the use of Borouge products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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