

PRODUCT DATA SHEET

POLYPROPYLENE

HJ311AI

HOMOPHASIC POLYMER FOR INJECTION MOULDING

DESCRIPTION

HJ311AI is a Homophasic polymer characterized by very high flow, and optimum combination of high stiffness and impact strength.

The material is nucleated with Borealis Nucleation Technology (BNT™). Flow properties, nucleation and good stiffness give potential for cycle time reduction.

APPLICATIONS

Injection Moulded Application requiring low emissions

PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Density	900 – 910 kg/m ³	ISO 1183
Melt Flow Rate (230°C/2.16kg)	60 g/10min	ISO 1133
Tensile Modulus (2mm/min)	1750 MPa	ISO 178
Tensile Strain at Yield (50 mm/min)	9 %	ISO 527-2
Tensile Stress at Yield (50mm/min)	37 MPa	ISO 527-2
Flexural Modulus (2 mm/min)	1650	ISO 178
Charpy Impact Strength, notched (23°C)	2.2 kJ/m ²	ISO 179/1eA

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

*Data should not be used for specification work

PROCESSING CONDITIONS

The actual conditions will depend on the type of equipment used.

Following parameters should be used as guidelines:

Melt temperature	210 – 260 °C
Holding pressure	200 – 500 bar
Mould temperature	10 – 50 °C
Injection speed	High

Specific recommendations for processing conditions can be determined only when the application and type of equipment are known. Please contact your local Borouge representative for such particulars.

STORAGE

HJ311AI 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

STANDARDS

Borouge is certified to various ISO standards, please refer to Borouge.com for more information.

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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