

PRODUCT DATA SHEET

POLYPROPYLENE

HC402BF

POLYPROPYLENE HOMOPOLYMER FOR BOPP FILM APPLICATIONS

DESCRIPTION

HC402BF is a Homopolymer product produced by the proprietary **Borstar®** process, intended for BOPP film applications. Product is suitable for high speed BOPP lines.

HC402BF does not contain Slip, Antiblock and Calcium Stearate.

CAS No. 9003-07-0

APPLICATIONS

Co-extrusion applications
Metallisable film
Print lamination
Packages for bakery products
Cigarette film
Flower packaging

SPECIAL FEATURES

Excellent processability
Good mechanical properties
Good moisture and oxygen barrier
Good optical properties
Good film stiffness
Metallisable

PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Density	900-910kg/m ³	ASTM D792
Melt Flow Rate (230°C/2.16kg)	3.2g/10min	ASTM D1238
Melting temperature(DSC)	161°C	ISO 3146
Vicat Softening Temperature(Method A)**	152°C	ISO 306

*Data should not be used for specification work

** Measured on injection moulded specimens, conditioned at 23°C and 50% Rel. Hum.

FILM PROPERTIES

BOPP Film Property	Typical Value	Test Method
Haze	<1.0%	ASTM D1003
Gloss @ 45 degree	>100	ASTM D2457
Tensile Modulus(MD)	1900MPa	ISO 527-3
Tensile Modulus(TD)	2900MPa	ISO 527-3

*Data based on standard 20 micro BOPP film

PROCESSING GUIDELINES

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

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.

FOOD CONTACT REGULATIONS

HC402BF fulfils the food contact regulations in most countries. For specific information and compliance statement please contact your Borouge representative.

STORAGE

HC402BF 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

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.

April 2025