

PRODUCT DATA SHEET

POLYETHYLENE

FT6230

LDPE for Film

DESCRIPTION

FT6230 is a Low Density Polyethylene for Film extrusion produced by high pressure Tubular Technology. This product is developed for the production of packaging film with good optical properties.

FT6230 contains no additive.

CAS-No. 9002-88-4

APPLICATIONS

FFS Bags
Lamination
Shopping Bags/ Air bubble Films

PE Foam
Shrink Film
Food Packaging

KEY FEATURES

Excellent process ability
Excellent Sealing

Excellent Optical Properties
Mono Layer & Co-extrusion Film

PHYSICAL PROPERTIES

Property	Typical Value*	Test Method
Density	923 kg/m ³	ASTM D 792
Melt Flow Rate (190°C/2.16kg)	2.0 g/10min	ASTM D1238
Melting Temperature	111 °C	ISO 11357/03
Vicat Softening Point A50 (10 N)	95 °C	ISO 306

* Typical properties and data should not be used for specification work

FILM PROPERTIES¹

Property**	Typical Value*	Test Method
Tensile Strength at Break (MD/TD)	25/20 MPa	ISO 527-3
Elongation at Break (MD/TD)	300/600 %	ISO 527-3
Tensile Modulus (1 % Secant) (MD/TD)	180/190 MPa	ASTM D 882
Coefficient of Friction	0.6	ASTM D 1894
Gloss at 60°C (of arc)	90	ASTM D 2457
Haze	7 %	ASTM D 1003
Dart Drop	100 g	ASTM D 1709/A
Tear Strength (MD/TD)	2/2 N	ASTM D 1922

¹ Film properties: 40µm, BUR=3:1, Die gap 1.2mm

* Typical properties and data should not be used for specification work

** The film properties are dependent on extrusion conditions.

PROCESSING CONDITIONS

FT6230 can be processed in most types of blown film equipment such as LDPE, LLDPE or HDPE extruders.

Recommended processing conditions:

Melt temperature	160 - 180°C
Die gap	>1.0 mm
FLH	>2 DD
BUR	>2:1

FOOD CONTACT REGULATIONS

FT6230 fulfils the food contact regulations in most countries. If required, contact your Borouge representative for a certificate.

STORAGE

This product should be stored in dry conditions at temperature bellow 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 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 mixture.

Dust and fines from the product carry a risk of dust explosion. All equipment should be properly earthed. Inhalation of dust should be avoided as it may cause irritation of the respiratory system. Small amounts of fumes are generated during processing of the product. Proper ventilation is therefore required.

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 regulations for drinking water pipes

STANDARDS

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

DISCLAIMER

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's 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.

Borstar® is a trademark of the Borealis group.

Jan 2023