

PRODUCT DATA SHEET

POLYETHYLENE

FT5230

LDPE for Film

DESCRIPTION

FT5230 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 for shrink wraps and medium duty film applications.

FT5230 contains no additive.

CAS-No. 9002-88-4

APPLICATIONS

Shrink Film	Agriculture Film
Lamination	Food Packaging
FFS Bags	Shopping Bags
Aluminum Composite Panel Sheet	

KEY FEATURES

Easy process ability	Good Shrinkage & Optical Properties.
Good Seal Properties	Mono Layer & Co-extrusion Film
Excellent Organoleptic	

PHYSICAL PROPERTIES

Property	Typical Value*	Test Method
Density	923 kg/m ³	ASTM D 792
Melt Flow Rate (190°C/2.16kg)	0.75 g/10min	ASTM D1238
Melting Temperature	112 °C	ISO 11357/03
Vicat Softening Point A50 (10 N)	96 °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)	27/24 MPa	ISO 527-3
Elongation at Break (MD/TD)	250/550 %	ISO 527-3
Tensile Modulus (1 % Secant) (MD/TD)	200/230 MPa	ASTM D 882
Coefficient of Friction	0.7	ASTM D 1894
Gloss at 60°C (of arc)	75	ASTM D 2457
Haze	8%	ASTM D 1003
Dart Drop	120 g	ASTM D 1709/A
Tear Strength (MD/TD)	3/2 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

FT5230 can be processed in most types of blown film equipment such as LDPE, LLDPE or HDPE extruders.

Recommended processing conditions:

Melt temperature	170 - 190°C
Die gap	>1.0 mm
FLH	>2 DD
BUR	>2:1

FOOD CONTACT REGULATIONS

FT5230 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.

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Jan 2018