

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 grade is developed for the production of packaging film with good optical properties for shrink wraps and medium duty film applications.

FT5230 contains no additives.

APPLICATIONS

Shrink film	Agriculture Film (incl. Greenhouse Film)
Lamination Films	Food Packaging
FFS Bags	Carrier Bag film
Aluminum Composite panel sheet	

SPECIAL FEATURES

Easy process ability	Balanced Shrinkage
Good seal properties	Good mechanical & optical balance
Excellent organoleptics	Mono layer & co-extrusion films

PHYSICAL PROPERTIES

Property	Typical Value	Unit	Test Method
Density	923	Kg/m ³	ASTM D 792
Melt Flow Rate MFR (190 °C/2.16 kg)	0.75	g/10min	ASTM D1238
Melting Temp.	112	°C	ISO 11357/03
Vicat softening temperature A50 (10N)	96	°C	ISO 306

*Data should not be used for specification work

FILM PROPERTIES

Property		Typical Value	Unit	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	MD/TD	200/230	MPa	ASTM D 882
Coefficient of Friction		0.8	-	ASTM D 1894
Gloss at 60 degree (of arc)		85		ASTM D 2457
Haze		8	%	ASTM D 1003
Dart Drop		120	g	ASTM D 1709/A
Tear Strength	MD/TD	4/2	N	ASTM D 1922

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**The film properties are dependent on extrusion conditions.

Film properties: 40µm, BUR=2.5:1, Die gap 1.2mm

PROCESSING GUIDELINES

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

Recommended processing conditions:

Melt temperature 160 –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

The product 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 for this product.



FT5230

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.

A Safety Information Sheet is available on request. Please contact your Borouge representative for more details on various aspects of safety, recovery and disposal of the product.

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

Most datasheets and statements are available on Borouge website www.borouge.com. If more information is required, please contact a Borouge representative for 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.

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