

PRODUCT DATA SHEET

POLYETHYLENE

FT6238

LDPE for Film (Non-Food Application)

DESCRIPTION

FT6238 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 excellent optical properties. This product is developed for Blown film application covering areas like Lamination film, Air bubble film and PE foam. It may contain traces of Silane, Butyl Acrylate and Octadiene and this grade is for non-food application.

FT6238 contains Slip, Antiblock & Antioxidant additives.

Slip (Erucamide)	550 ppm*
Antiblock (Silica)	800 ppm*

* Typical values

CAS-No. 9002-88-4

APPLICATIONS

High Gloss & Clarity Films
Laundry Bags

General Purpose Pouches

KEY FEATURES

Excellent process ability
Easy Sealing
Mono Layer & Co-extrusion Film

Excellent Optical Properties.
Low COF

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	109 °C	ISO 11357/03
Vicat Softening Point A50 (10 N)	91 °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	0.20	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

FT6238 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

FT6238 is a non-food grade for non-food application

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 odor generation and color 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

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.

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