



Polyethylene FT5236

LDPE for Blown Film

Description

FT5236 is a tubular, low density, polyethylene grade for the production of packaging film. **FT5236** is developed to give film with good optical properties for medium duty film applications.

Applications

FT5236 is intended for applications like:

- Carrier-bag films
- Pouches
- Lamination films/Food packaging

Additives

	Content	Unit	Additive
Slip	550	ppm	Erucamide
Antiblock	800	ppm	Synthetic Silica
Antioxidant	No		

Physical Properties

	Typical Value*	Unit	Test Method
Density	923	kg/m ³	ISO 1183
Melt Flow Rate (190°C/2.16 kg)	0.75	g/10 min	ISO 1133
Melting Temperature	112	°C	ISO 11357/03
Vicat Softening Temperature (A)	97	°C	ISO 306

* Data should not be used for specification work

Processing Guidelines

FT5236 is easily processed on conventional extruders.

Recommended melt temperature range is from 160°C to 190°C. Due to differences in screw and die head designs the optimum temperature adjustments are individual and should be sought for each production line.

With suitable equipment **FT5236** can be drawn down to 30 micron.

Borealis A/S

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 Polyethylene
FT5236**Film Properties****

		Typical Value*	Unit	Test Method
Tensile Strength	MD/TD	27/24	MPa	ISO 527-3
Tensile Strain at Break	MD/TD	250/550	%	ISO 527-3
Tensile Modulus (0.05-1.05%)	MD/TD	230/260	MPa	ASTM D 882-A
Coefficient of Friction	(Dynamic)	0.2	-	ISO 8295
Haze		8	%	ASTM D 1003
Gloss		85	-	ASTM D 2457
Dart drop		120	g	ISO 7765/1
Elmendorf Tear Strength	MD/TD	4/2	N	ISO 6383/2
Puncture Resistance, force		66	N	ASTM D 5748
Puncture Resistance, energy		2.5	J	ASTM D 5748

* Data should not be used for specification work

** Film properties are measured on a 40-µm film sample produced on a 60mm W&H extruder with IBC cooling at BUR=1:2,5.
MD = machine direction, TD = transverse direction.

Storage and Handling

FT5236 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 the product.

Safety

FT5236 is not classified as a dangerous preparation.

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.

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.

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

 Polyethylene
FT5236**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 Data Sheet, SDS
Environmental fact sheet
Recovery and disposal of Polyolefins
Information on Emissions from Processing and Fires

Liability statements on:

- Absence of Certain Chemicals
- Compliance to Food Contact Regulations.

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