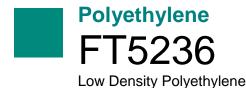
# PRODUCT DATA SHEET





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## **Description**

**FT5236** is a low density polyethylene based on the tubular technology for film extrusion, containing anti-block and slip additives. This grade is developed for the production of packaging film with good optical properties for medium duty film applications.

**CAS-No.** 9002-88-4

# **Applications**

FT5236 is intended for:

Carrier-bag film
Pouches
Lamination films
Food packaging

### **Additives**

	Content		
Antiblock (Synthetic Silica)	800 ppm	Borealis Method	
Slip (Erucamide)	550 ppm	Borealis Method	
Antioxidant	Yes	Borealis Method	

## **Physical Properties**

Property	Typical Value Test Method  Data should not be used for specification work				
Density Melt Flow Rate (190 °C/2,16 kg) Melting temperature	923 kg/m³ 0,75 g/10min 112 °C	ISO 1183 ISO 1133 ISO 11357-3			

## **Film Properties**

Film properties are measured on 40  $\mu$ m film sample produced on a 60 mm W&H extruder with IBC cooling at BUR = 1:2,5.

Property		Typical Value Test Method Data should not be used for specification work		
Dart Drop		120 g	ISO 7765-1	
Instrumented puncture test	Total Penetration Energy	2,5 J	ISO 6603-2	
Haze		8 %	ASTM D 1003	
Gloss at 20 degree (of arc)		85	ASTM D 2457	
Tensile Strain at Break 1	MD	250 %	ISO 527-3	
Tensile Strain at Break	TD	550 %	ISO 527-3	
Tensile Strength	MD	27 MPa	ISO 527-3	
Tensile Strength	TD	24 MPa	ISO 527-3	
Tensile Modulus	MD	230 MPa	ASTM D 882-A	
Tensile Modulus	TD	260 MPa	ASTM D 882-A	
Tear resistance (Elmendorf)	MD	4 N	ISO 6383-2	
,	TD	2 N		
Coefficient of friction (Dynamic	)	0,2	ISO 8295	

<sup>&</sup>lt;sup>1</sup> MD = machine direction, TD = transverse direction.

HongRong Engineering Plastics Co.,Ltd. Head Office Tel. +85-2-6957-5415 Research Center Tel.+188 1699 6168



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### **Processing Techniques**

**FT5236** is easily processed on conventional extruders. Recommended melt temperature range is from 160°C to 190°C.

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

Due to differences in screw and die head designs the optimum temperature adjustments are individual and should be sought for each production line.

# **Storage**

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 this product.

More information on storage is found in our "Safety data sheet" / "Product safety information sheet".

### Safety

The product is not classified as dangerous.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis 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 data sheet" / "Product safety information sheet" Statement on chemicals, regulations and standards Statement on Origin of Raw Materials General statement on compliance to food contact regulations

#### Issuer:

Marketing Consumer Products / Mari Kylmala Product Management / Jenny Wang

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