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# Polyethylene FT5230

Low density polyethylene for Film Extrusion

## Description

**FT5230** is a Low Density Polyethylene for Film Extrusion. Tubular Technology. Unmodified.

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

**FT5230** has been developed especially for applications like:

Shrink film  
Carrier-bag film  
Pouches

Lamination films  
Food packaging

## Additives

**FT5230** contains no additives.

## Physical Properties

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

## Film Properties

Film properties are measured on 40 µm 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	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 <sup>1</sup>	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	

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Coefficient of friction (Dynamic)

0,8

ISO 8295

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

## Processing Techniques

FT5230 is easily processed on conventional extruders.

Recommended melt temperature range is from 160°C to 190°C.

With suitable equipment FT5230 can be drawn down to 25 - 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

**FT5230** 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.

## 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

Most Data sheet and safety data sheets are available on Borealis web site [www.borealisgroup.com](http://www.borealisgroup.com). If the data sheets could not be found on the web, Borealis contact person could supply with information.