



Low density polyethylene for Film Extrusion

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## **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.

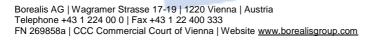
# **Physical Properties**

Property	<b>Typical Value</b> Data should not be used for	Test Method specification work
Density	923 kg/m³	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 Data should not be used for spec	Test Method cification work
Dart Drop Instrumented puncture test Haze Gloss at 20 degree (of arc) Tensile Strain at Break Tensile Strain at Break Tensile Strength Tensile Strength Tensile Modulus Tensile Modulus Tear resistance (Elmendorf)	Total Penetration Energy  MD TD MD TD MD TD MD TD MD TD TD TD	120 g 2,5 J 8 % 85 250 % 550 % 27 MPa 24 MPa 230 MPa 260 MPa 4 N 2 N	ISO 7765-1 ISO 6603-2 ASTM D 1003 ASTM D 2457 ISO 527-3 ISO 527-3 ISO 527-3 ISO 527-3 ASTM D 882-A ASTM D 882-A ISO 6383/2







Coefficient of friction (Dynamic)

0,8

ISO 8295

# **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. If the data sheets could not be found on the web, Borealis contact person could supply with information.

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria Telephone +43 1 224 00 0 | Fax +43 1 22 400 333 FN 269858a | CCC Commercial Court of Vienna | Website <a href="https://www.borealisgroup.com">www.borealisgroup.com</a>



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



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