



Polyethylene FT6230

LDPE for Blown Film

Description

FT6230 is a tubular, low density, polyethylene grade for the production of packaging film. **FT6230** is developed to give films with good optical properties for thin film applications.

Applications

FT6230 is intended for applications like:

- Films for use on automated packaging machinery
- Pouches
- Fine shrink films
- Food packaging films

Additives

FT6230 contains no additives.

Physical Properties

| | Typical Value* | Unit | Test Method |
|------------------------------------|----------------|-------------------|-------------|
| Density | 922 | kg/m ³ | ISO 1183 |
| Melt Flow Rate MFR (190°C/2.16 kg) | 2.0 | g/10 min | ISO 1133 |
| Melting Temperature | 111 | °C | ISO 11357/3 |
| Vicat Softening Temperature | 95 | °C | ISO 306 |

* Data should not be used for specification work

Processing Guidelines

FT6230 is easily processed on conventional extruders.

Recommended melt temperature range is from 150oC to 180oC. 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 **FT6230** can be drawn down to 20-25 micron.

Borealis A/S

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Film Properties**

| | | Typical Value* | Unit | Test Method |
|-----------------------------------|-------|----------------|------|--------------|
| Tensile Strength | MD/TD | 25/20 | MPa | ISO 527-3 |
| Strain at Break | MD/TD | 300/600 | % | ISO 527-3 |
| Tensile Modulus (0.05-1.05%) | MD/TD | 180/190 | MPa | ASTM D 882-A |
| Coefficient of Friction (Dynamic) | | 0.6 | - | ISO 8295 |
| Haze | | 8 | % | ASTM D 1003 |
| Gloss | | 90 | - | ASTM D 2457 |
| Dart Drop | | 100 | g | ISO 7765/1 |
| Elmendorf Tear Strength | MD/TD | 3/2 | N | ISO 6383/2 |

* Data should not be used for specification work

** Film properties are measured on a 40- μ m 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

FT6230 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

FT6230 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.



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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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