PRODUCT DATA SHEET

Polyethylene

FT6230

Low Density Polyethylene

Description

FT6230 is an unmodified low density polyethylene based on the tubular technology for film extrusion and foam.

This grade is developed for the production of packaging film with good optical properties for medium duty film applications.

Cas No. 9002-88-4

FT6230 contains:

No additives

Typical characteristics

FT6230 can be described with following typical characteristics:

Very good optical properties Easy to extrude

Bubble stability

Applications

FT6230 is intended for following applications:

Food packaging Shrink film

Pouches

Physical properties

| Property | Typical value * | Unit | Test method |
|--|-----------------|----------|-------------|
| Density | 923 | kg/m³ | ISO 1183-1 |
| Melt flow rate (190 °C/2.16 kg) | 2.0 | g/10 min | ISO 1133-1 |
| Vicat softening temperature A50 (10 N) | 95 | °C | ISO 306 |
| Melting temperature | 111 | °C | ISO 11357-3 |

^{*} Data should not be used for specification work



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Film properties

| Property | Typical value * | Unit | Test method |
|--|-----------------|------|-------------|
| Dart drop | 100 | g | ISO 7765-1 |
| Tear resistance - Elmendorf ¹ | 2.3 | N | ISO 6383-2 |
| Tear resistance - Elmendorf⁴ | 2.5 | N | ISO 6383-2 |
| Tensile strength ¹ | 22 | MPa | ISO 527-3 |
| Tensile strength ² | 20 | MPa | ISO 527-3 |
| Tensile strain at break ¹ | 400 | % | ISO 527-3 |
| Tensile strain at break ² | 600 | % | ISO 527-3 |
| Tensile modulus ¹ | 190 | MPa | ASTM D882 |
| Tensile modulus ² | 210 | MPa | ASTM D882 |
| Gloss 45° | 70 | GU | ASTM D2457 |
| Haze | 8 | % | ASTM D1003 |
| Coefficient of friction (film/film) | 0.2 | - | ISO 8295 |

¹ Machine direction

* Data should not be used for specification work

Packaging and storage

FT6230 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency.

Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

For information on regional availability please contact Borealis Sales Representative.

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² Transverse direction