PRODUCT DATA SHEET

Polyethylene

FT7230

Low Density Polyethylene

Description

FT7230 is an unmodified low density polyethylene based on the tubular technology for film extrusion.

This product is developed for the production of packaging film with excellent optical properties and low thickness.

Cas No. 9002-88-4

FT7230 contains:

No additives

Typical characteristics

FT7230 can be described with following typical characteristics:

Easy to extrude

Excellent optical properties

Applications

FT7230 is intended for following applications:

Very thin and clear packaging film

Physical properties

Property	Typical value *	Unit	Test method
Density	923	kg/m³	ISO 1183-1
Melt flow rate (190 °C/2.16 kg)	4.0	g/10min	ISO 1133-1
Vicat softening temperature A50	91	°C	ISO 306
Melting temperature	109	°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	70	g	ISO 7765-1
Tear resistance - Elmendorf[1]	3	N	ISO 6383-2
Tear resistance - Elmendorf[2]	2	N	ISO 6383-2
Tensile strength[1]	20	MPa	ISO 527-3
Tensile strength[2]	18	MPa	ISO 527-3
Tensile strain at break[1]	300	%	ISO 527-3
Tensile strain at break[2]	600	%	ISO 527-3
Tensile modulus[1]	180	MPa	ISO 527-3
Tensile modulus[2]	190	MPa	ISO 527-3
Gloss 45°	70	GU	ASTM D2457
Haze	7	%	ASTM D1003
Coefficient of friction (film/film)	0.6	-	ISO 8295

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[1] *Machine direction*
[2] *Transverse direction*

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.
Film properties are strongly dependent of extrusion conditions.

Processing techniques

FT7230 is easily processed on conventional extruders.
Recommended melt temperature range is from 150°C to 180 °C.

Packaging and storage

FT7230 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.

Disclaimer

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