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PRODUCT DATA SHEET

Polyethylene

FT6236

Low Density Polyethylene

Description

FT6236 is a low density polyethylene based on the tubular technology for film extrusion and foam.

Cas No. 9002-88-4

FT6236 contains:

800	ppm	Antiblocking agent
550	ppm	Slip agent
Yes		Antioxidant

Typical characteristics

FT6236 can be described with following typical characteristics:

Very good optical properties	Easy to extrude
Bubble stability	

Applications

FT6236 is intended for following applications:

Pouches	Shrink film
Food packaging	Blown film

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	ISO1133-1
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

Manufacturer website: https://www.borealisgroup.com/

Polyethylene

FT6236

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 - Elmendorf[2]	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

* Data should not be used for specification work

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

Packaging and storage

FT6236 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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