

Polyethylene

FT3200

Low Density Polyethylene

Description

FT3200 is an unmodified low density polyethylene based on the tubular technology for film extrusion.

Cas No. 9002-88-4

FT3200 contains:

No additives

Typical characteristics

FT3200 can be described with following typical characteristics:

Excellent shrink performance

Bubble stability

Applications

FT3200 is intended for following applications:

Agricultural film

Heavy-duty bags

Construction film

Shrink film

Physical properties

Property	Typical value *	Unit	Test method
Density	920	kg/m ³	ISO 1183-1
Melt flow rate (190 °C/2.16 kg)	0.25	g/10min	ISO 1133-1
Vicat softening temperature A50	92	°C	ISO 306
Melting temperature	110	°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	500	g	ISO 7765-1
Tear resistance - Elmendorf ¹	4	N	ISO 6383-2
Tear resistance - Elmendorf ²	7	N	ISO 6383-2
Tensile strength ¹	25	MPa	ISO 527-3
Tensile strength ²	26	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	160	MPa	ASTM D882
Tensile modulus ²	160	MPa	ASTM D882
Gloss 45°	50	GU	ASTM D2457
Haze	13	%	ASTM D1003
Coefficient of friction (film/film)	0.7	-	ISO 8295

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¹ Machine direction

² Transverse direction

Film properties are measured on 125 µm sample produced on a 60 mm W&H extruder with IBC cooling at BUR = 1:2,5.

Packaging and storage

FT3200 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.

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