PRODUCT DATA SHEET

28.02.2018 Ed.2

Polyethylene
FA3200

Low Density Polyethylene

Description

FA3200 is a non-additivated low density polyethylene homopolymer produced by an autoclave high pressure process. This grade used in blown film production application where it brings outstanding melt strength and bubble stability.

Films made with FA3200 show excellent mechanical performances, very good toughness combined with balanced shrink properties.

CAS-No. 9002-88-4

Applications

FA3200 is recommended for:

Heavy-duty bags
Collation shrink
Shrink film
Construction films
Industrial films
Agricultural films
Bags and pouches
Food packaging

Additives

FA3200 contains no additives.

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	920 kg/m³	ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	0,25 g/10min	ISO 1133
Melting temperature (DSC)	110 °C	ISO 11357-3

Film Properties

Film properties are measured on 125 µm film sample produced on a 60 mm W&H extruder with IBC cooling at BUR = 1:3.
MD = machine direction, TD = transverse direction.

Property		Typical Value Data should not be used for specification work	Test Method
Dart Drop		500 g	ISO 7765-1
Tensile Strain at Break	MD	450 %	ISO 527-3
Tensile Strain at Break	TD	500 %	ISO 527-3
Tensile Strength	MD	20 MPa	ISO 527-3
Tensile Strength	TD	22 MPa	ISO 527-3
Tensile Modulus	MD	200 MPa	ASTM D 882-A
Tensile Modulus	TD	230 MPa	ASTM D 882-A

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Tear resistance (Elmendorf)	MD TD	2,6 N 4 N	ISO 6383/2
Coefficient of friction (Dynamic)		0,5	ISO 8295

Storage

FA3200 FA3200 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 this product.
More information on storage is found in the Safety data sheet (SDS) / Product safety information sheet (PSIS) for this product.

Safety

The product is not classified as dangerous.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

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.

Related Documents

"Safety data sheet" / "Product safety information sheet"
Statement on compliance to food contact regulations
Statement on chemicals, regulations and standards
Statement on Origin of Raw Materials

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Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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