

Low density polyethylene for Film Extrusion

# Description

FA6220 is a Low Density Polyethylene for Film Extrusion. Autoclave Technology. Includes Antioxidant.

This grade is developed for the production of thin blown films.

**CAS-No.** 9002-88-4

## **Applications**

FA6220 has been developed especially for applications like:

Shrink film Pouches General packaging film Bubble film and foam

### Additives

FA6220 contains antioxidant.

# **Physical Properties**

Property	Typical Value Test Method Data should not be used for specification work			
Density	922 kg/m³	ISO 1183		
Melt Flow Rate (190 °C/2,16 kg)	2,1 g/10min	ISO 1133		
Melting temperature	111 °C	ISO 11357-3		

## **Film Properties**

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.

Property			Typical Value Data should not be used fo	Test Method specification work	
Dart Drop Puncture resistance	Energy to break		100 g 1,3 J	ISO 7765-1 ASTM D 5748	
Haze	Energy to break		7 %	ASTM D 1003	
Gloss			85	ASTM D 2457	
Tensile Strain at Break <sup>1</sup>		MD	350 %	ISO 527-3	
Tensile Strain at Break		TD	600 %	ISO 527-3	
Tensile Strength		MD	26 MPa	ISO 527-3	
Tensile Strength		TD	20 MPa	ISO 527-3	
Tensile Modulus		MD	200 MPa	ASTM D 882-A	
Tensile Modulus		TD	210 MPa	ASTM D 882-A	
Tear resistance (Elmendorf)		MD	5 N	ISO 6383/2	
		TD	3 N		
Coefficient of friction (Dynami	c)		0,9	ISO 8295	

 $^{1}$  MD = machine direction, TD = transverse direction.

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## **Processing Techniques**

FA6220 is easily processed on conventional extruders.

With suitable equipment FA6220 can be drawn down to 25 micron.

Recommended melt temperature range is from 150°C to 180°C.

Due to differences in screw and die head designs the optimum temperature adjustments are individual and should be sought for each production line.

### Storage

**FA6220** 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 our "Safety data sheet" / "Product safety information sheet".

### 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**

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

"Safety data sheet" / "Product safety information sheet" Statement on chemicals, regulations and standards Statement on polymer additives and BSE Statement on compliance to food contact regulations

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