



# Polyethylene FA6224

Low density polyethylene for Film Extrusion

## Description

**FA6224** is a Low Density Polyethylene for Film Extrusion. Autoclave Technology. Contains Antioxidant, Anti-block and Medium Slip additives.

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

## Applications

**FA6224** has been developed especially for applications like:

Pouches  
General packaging film

## Additives

	Content	
Antiblock (Talc)	850 ppm	Borealis Method
Slip (Erucamide)	500 ppm	Borealis Method
Antioxidant (Vitamin E)	Yes	Borealis Method

## Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	922 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	2,1 g/10min	ISO 1133
Melting temperature	111 °C	ISO 11357-3
Vicat softening temperature	95 °C	ISO 306

## Film Properties

Film properties are measured on 40µm film sample produced on a 60 mm W&H extruder with IBC cooling at BUR=1:2,5.

Property	Typical Value	Test Method
Data should not be used for specification work		
Dart Drop	100 g	ISO 7765-1
Puncture resistance	Energy to break Force	ASTM D 5748
Haze	1,3 J 50 N	
Gloss	7 %	ASTM D 1003
Tensile Strain at Break <sup>1</sup>	85	ASTM D 2457
Tensile Strain at Break	MD 350 %	ISO 527-3
Tensile Strength	TD 600 %	ISO 527-3
Tensile Strength	MD 26 MPa	ISO 527-3
Tensile Modulus	TD 20 MPa	ISO 527-3
	MD 200 MPa	ASTM D 882-A



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Tensile Modulus	TD	210 MPa	ASTM D 882-A
Tear resistance (Elmendorf)	MD	5 N	ISO 6383/2
	TD	3 N	
Coefficient of friction (Dynamic)		0,1	ISO 8295

<sup>1</sup> MD = machine direction, TD = transverse direction.

## Processing Techniques

FA6224 is easily processed on conventional extruders.

With suitable equipment FA6224 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

**FA6224** 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.

## Safety

The product is not classified as a dangerous preparation.

Please see our Safety Data 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

Most Data sheet and safety data sheets are available on Borealis web site [www.borealisgroup.com](http://www.borealisgroup.com). If the data sheets not could be found on the web, Borealis contact person could supply with information.



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