

# **Polyethylene** **FS1470**

High density Polyethylene for Film Extrusion



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## Description

**FS1470** is a high density polyethylene film grade which combine excellent extrusion behaviour with superior mechanical properties.

Films made of FS1470 have high impact and tensile strength, and balanced tear properties.

## Applications

**FS1470** has been developed especially for applications like:

Heavy-duty sack  
Refuse sacks and liners

Carrier-bag film

## Additives

**FS1470** contains antioxidant.

## Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	947 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (190 °C/5,0 kg)	0,2 g/10min	ISO 1133
Melt Flow Rate (190 °C/21,6 kg)	6 g/10min	ISO 1133
Melting temperature	130 °C	ISO 11357-3
Vicat softening temperature	124 °C	ISO 306

## Film Properties

Film properties are strongly dependent of extrusion conditions.

Property	Typical Value	Test Method
Data should not be used for specification work		
Dart Drop	350 g	ISO 7765-1
Puncture resistance	1,5 J	ASTM D 5748
Energy to break	45 N	
Tensile Strain at Break <sup>1</sup>	MD 250 %	ISO 527-3
Tensile Strain at Break	TD 300 %	ISO 527-3
Tensile Strength	MD 50 MPa	ISO 527-3
Tensile Strength	TD 55 MPa	ISO 527-3
Tensile Modulus	MD 1.000 MPa	ASTM D 882-A
Tensile Modulus	TD 1.100 MPa	ASTM D 882-A
Tear resistance (Elmendorf)	MD 0,2 N	ISO 6383/2
	TD 0,3 N	

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

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## Processing Techniques

FS1470 is easily processed on conventional extruders.

**FS1470** is intended for high neck extrusion on HDPE film extruders. The material will provide optimal performance in extrusion and in mechanical properties.

Recommended extrusion conditions are:

Flat temperature profile with a melt temperature between 210°C and 230°C.

Neck height: 5 - 8 x die diameter

Blow up ratio: 3:1 - 5:1

## Storage

**FS1470** 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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## 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.**

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