

Borealis PE FS1470

High Density Polyethylene

Borealis AG

Message:

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.

FS1470 contains antioxidant.

General Information			
Additive	Antioxidation		
Features	High tensile strength		
	Antioxidation		
	Impact resistance, high		
	Recyclable materials		
	Good tear strength		
Uses	Films		
	Lining		
	Bags		
	Heavy packing bag		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.947	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	6.0	g/10 min	ISO 1133
190°C/5.0 kg	0.20	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Puncture Energy	1.50	J	ASTM D5748
Film Puncture Force	45.0	N	ASTM D5748
secant modulus			ASTM D882A
MD	1000	MPa	ASTM D882A
TD	1100	MPa	ASTM D882A
Tensile Strength			ISO 527-3
MD	50.0	MPa	ISO 527-3
TD	55.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Fracture	250	%	ISO 527-3
TD: Fracture	300	%	ISO 527-3
Dart Drop Impact	350	g	ISO 7765-1

Elmendorf Tear Strength			ISO 6383-2
MD	0.20	N	ISO 6383-2
TD	0.30	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ISO 306
Melting Temperature	130	°C	ISO 11357-3
Extrusion	Nominal Value	Unit	
Melt Temperature	210 - 230	°C	
Extrusion instructions			

Blow Up Ratio: 3:1-5:1 Neck height: 5 - 8 x die diameter

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

