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Polyethylene

FS1560

High density Polyethylene for Film Extrusion

Description

FS1560 is a high density polyethylene film grade which combine excellent extrusion behaviour with superior mechanical properties.

Films made of FS1560 have high impact and tensile strength, and balanced tear properties.

Applications

FS1560 has been developed especially for applications like:

Heavy-duty sack
Refuse sacks and liners
Carrier-bag film

Additives

FS1560 contains antioxidant.

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	956 kg/m3	ISO 1183
Melt Flow Rate (190 °C/5,0 kg)	0,3 g/10min	ISO 1133
Melt Flow Rate (190 °C/21,6 kg)	9 g/10min	ISO 1133
Melting temperature	133 °C	ISO 11357-3
Vicat softening temperature	127 °C	ISO 306

Film Properties

Film properties are strongly dependent of extrusion conditions.

Property			Typical Value Data should not be used for specification work	Test Method
Dart Drop			350 g	ISO 7765-1
Puncture resistance	Energy to break		1,5 J	ASTM D 5748
	Force		45 N	
Tensile Strain at Break [1]		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	

[1] MD = machine direction, TD = transverse direction.

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Processing Techniques

The actual conditions will depend on the type of equipment used.

FS1560 is intended for high neck extrusion on HDPE film extruders. The material will provide optimal performance in extrusion and in menchanical properties.

Recommended extrusion conditions are:

Flat temperature profile with a melt temperature between 210°C and 230°C.
Neck height: 5 - 9 X die diameter
Blow up ratio: 3:1 - 5:1

Storage

FS1560 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. 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.

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 Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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