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Polyethylene

FG5224

Linear Low Density Polyethylene for Film Extrusion

Description

FG5224 is a Butene Linear Low Density Polyethylene for Film Extrusion. Includes Antioxidant, Anti-block and Medium Slip additives.

This grade is developed for production of lamination film. FG5224 has good heat sealing properties and hot tack strength. By mixing with FG5223 any desired level of friction can be obtained.

Applications

FG5224 has been developed especially for applications like:

Lamination films
Shrink film
Carrier-bag film
Food wrap film

Additives

	Content	
Antiblock (Synthetic Silica)	625 ppm	Borealis Method
Slip (Erucamide)	480 ppm	Borealis Method
Antioxidant	Yes	Borealis Method

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	922 kg/m3	ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	0,9 g/10min	ISO 1133
Melting temperature	122 °C	ISO 11357-3

Film Properties

Film properties are measured on 70 µm film sample produced on a 60 mm W&H extruder with IBC cooling at BUR = 2,5:1.

Property		Typical Value Data should not be used for specification work	Test Method
Dart Drop		260 g	ISO 7765-1
Haze		10 %	ASTM D 1003
Gloss at 20 degree (of arc)		100	ASTM D 2457
Tensile Strain at Break	MD	800 %	ISO 527-3
Tensile Strain at Break	TD	1.000 %	ISO 527-3
Tensile Strength	MD	29 MPa	ISO 527-3
Tensile Strength	TD	28 MPa	ISO 527-3
Tensile Modulus	MD	145 MPa	ASTM D 882-A
Tensile Modulus	TD	165 MPa	ASTM D 882-A
Tear resistance (Elmendorf)	MD	2 N	ISO 6383/2
	TD	9 N	

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Coefficient of friction (Dynamic)	0,1	ISO 8295

Processing Techniques
FG5224 is easily processed on conventional extruders.

FG5224 is an LLD-based grade and should be extruded with low freeze line height. Recommended blow up ration is 2:1. A normal die gap can be used. A LLD resin will generate higher extrusion pressure than conventional LDPE. Hence, previous materials, which remain in the extruder, will be purged out and an optimal film will not be produced until roughly 20 - 30 minutes after start-up with FG5224. FG5224 can, however, be extruded in a standard LD film blowing equipment.

Recommended melt temperature is 220°C - 230°C. The temperature setting depends on the degree of friction heat and has to be determined for each individual extruder. FG5224 has excellent draw down properties and produced films have well balanced mechanical properties in spite of its mono-orientation.

Storage
FG5224 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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