Borealis PE FG5224

Linear Low Density Polyethylene

Borealis AG

Message:

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.

General Information			
Additive	Erucamide Lubricating Additive (480 ppm) Anti-caking agent (625 ppm) 2 Antioxidation		
Features	Butene comonomer Anti-caking property Antioxidation Good heat sealability Thermal viscosity strength Moderate smoothness		
Uses	Films Laminate Bags Food packaging Shrinkable film		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.922	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (vs. Itself - Dynamic)	0.10		ISO 8295
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	70	µm	
secant modulus			ASTM D882A
MD : 70 µm	145	MPa	ASTM D882A
TD : 70 µm	165	MPa	ASTM D882A
Tensile Strength			ISO 527-3
MD : 70 µm	29.0	MPa	ISO 527-3

TD : 70 µm	28.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 70 µm	800	%	ISO 527-3
TD: Break, 70 µm	1000	%	ISO 527-3
Dart Drop Impact (70 µm)	260	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 70 µm	2.0	N	ISO 6383-2
TD : 70 µm	9.0	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	122	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (70.0 µm)	100		ASTM D2457
Haze (70.0 µm)	10	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	220 - 230	°C	
Extrusion instructions			

Blow Up Ratio: 2:1

Recommended distributors for this material

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