Riblene® FL 23 I

Low Density Polyethylene

Versalis S.p.A.

Message:

Riblene FL 23 I is a low density polyethylene (LDPE) additivated with slip agent, ideal for blown film extrusion.
Riblene FL 23 I is characterised by a good balance between proc-essability and mechanical properties.
Films manufactured with Riblene FL 23 I are easily heat shrinkable and characterised by good optical and mechanical properties.
Main Applications
Riblene FL 23 I is recommended for general blown film applications, for the production of low gauge film and shrink film, for lamination and for blending.

General Information			
Additive	slip agent		
Features	Low density smoothness Optical Workability, good Good thermal shrinkage Compliance of Food Exposure		
Uses	Blown Film Films Laminate Mixing Shrinkable film		
Agency Ratings	European food contact, not rated		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.923	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.13		ISO 8295
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	40	µm	
Film Thickness - Recommended / Available	25 to 80 µm		
Tensile Modulus			ISO 527-3
1% secant, MD: 40 µm, blown film	180	MPa	ISO 527-3
1% secant, TD: 40 µm, blown film	190	MPa	ISO 527-3
Tensile Stress			ISO 527-3

MD: Yield, 40 µm, blown film	11.0	MPa	ISO 527-3
TD: Yield, 40 µm, blown film	11.0	MPa	ISO 527-3
MD: Broken, 40 µm, blown film	25.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	22.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 40 µm, blown film	300	%	ISO 527-3
TD: Broken, 40 µm, blown film	650	%	ISO 527-3
Dart Drop Impact [1] (40 µm, Blown Film)	130	g	ISO 7765-1
Elmendorf Tear Strength [2]			ISO 6383-2
MD : 40.0 µm	80.0	kN/m	ISO 6383-2
TD : 40.0 µm	55.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	93.0	°C	ISO 306/A
Melting Temperature	113	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 µm, Blown Film)	72		ASTM D2457
Haze (40.0 µm, Blown Film)	5.5	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 190	°C	
NOTE			
1.	F50		
2.	Blown Film		

Recommended distributors for this material

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