Riblene® FL 23

Low Density Polyethylene

Versalis S.p.A.

Message:

Riblene FL 23 is a low density polyethylene (LDPE) additivated with slip agent, ideal for blown film extrusion. Riblene FL 23 is characterised by a good balance between proc-essability and mechanical properties.
Films manufactured with Riblene FL 23 are easily heat shrinkable and characterised by good optical and mechanical properties.
Main Application
Riblene FL 23 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		
Features	Food Contact Acceptable Good Heat Shrinkability Good Processability Low Density Opticals Slip		
Uses	Blending Film Laminates Shrink Wrap		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown 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	
1% Secant, TD : 40 µm, Blown Film	190	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 40 µm, Blown Film	11.0	MPa	

TD : Yield, 40 µm, Blown Film	11.0	MPa	
MD : Break, 40 µm, Blown Film	25.0	MPa	
TD : Break, 40 µm, Blown Film	22.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 40 µm, Blown Film	300	%	
TD : Break, 40 µm, Blown Film	650	%	
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	
TD : 40.0 µm	55.0	kN/m	
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 to 190	°C	
NOTE			
1.	F50		
2.	Blown Film		

Recommended distributors for this material

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