Riblene® FL 30 I

Low Density Polyethylene

Versalis S.p.A.

Message:

Riblene FL 30 I is a low density polyethylene (LDPE) ideal for blown film extrusion. Riblene FL 30 is characterised by a good balance between processability, mechanical and optical properties.
Films manufactured by Riblene FL 30 are easily heat shrinkable.
Main Applications
Riblene FL 30 I, due to its low gels level, is recommended for general blown film applications, for the production of low gauge film , shrink film, in lamination film and for blend. Thanks its high purity is also recommended for the production in hygienical and pharmaceutical film sector.

General Information			
Features	High purity Low density Low speed solidification crystal point 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)	> 0.50		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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