Riblene® FM 34 F

Low Density Polyethylene

Versalis S.p.A.

Message:

Riblene FM 34 F is a low density polyethylene (LDPE), additivated with slip (erucamide) and antiblocking agent, suitable for blown film extrusion. Riblene FM 34 F is characterised by a good balance between processability, mechanical and optical properties.
Films manufactured by Riblene FM 34 F are easily heat shrinkable.
Main Application
Riblene FM 34 F is recommended for general blown film applications, for the production of thin trasparent film, for garment and newspaper packaging, freezer bags and blend.

General Information	
Additive	Antiblock Slip
Features	Antiblocking Food Contact Acceptable Good Heat Shrinkability Good Processability Low Density Opticals Slip
Uses	Bags Blending Film Packaging
Agency Ratings	EU Food Contact, Unspecified Rating
Forms	Pellets
Processing Method	Blown Film Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.11		ISO 8295
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	40	µm	

Film Thickness - Recommended / Available	18 to 50 µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 40 µm, Blown Film	190	MPa	
1% Secant, TD : 40 µm, Blown Film	200	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 40 µm, Blown Film	12.0	MPa	
TD : Yield, 40 µm, Blown Film	12.0	MPa	
MD : Break, 40 µm, Blown Film	23.0	MPa	
TD : Break, 40 µm, Blown Film	20.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 40 µm, Blown Film	300	%	
TD : Break, 40 µm, Blown Film	600	%	
Dart Drop Impact [1] (40 µm, Blown Film)	110	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	94.0	°C	ISO 306/A
Melting Temperature	114	°C	Internal Method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 40.0 µm, Blown Film)	75		ASTM D2457
Haze (40.0 µm, Blown Film)	5.0	%	ISO 14782
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	150 to 170	°C	
NOTE			
1.	F50		
2.	Blown Film		

Recommended distributors for this material

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