

# Riblene® FM 34 E

Low Density Polyethylene

Versalis S.p.A.

## Message:

Riblene FM 34 E is a low density polyethylene (LDPE), additivated with slip (erucamide) and antiblocking agent, suitable for blown film extrusion. Riblene FM 34 E is characterised by a good balance between processability, mechanical and optical properties. Films manufactured by Riblene FM 34 E are easily heat shrinkable.

Main Application

Riblene FM 34 E is recommended for general blown film applications, for the production of thin transparent film, for garment and newspaper packaging, freezer bags and blend.

General Information			
Additive	Antiblock		
	Erucamide 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		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm <sup>3</sup>	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	11.0	MPa	
TD : Yield, 40 μm, Blown Film	11.0	MPa	
MD : Break, 40 μm, Blown Film	21.0	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 <sup>1</sup> (40 μm, Blown Film)	110	g	ISO 7765-1
Elmendorf Tear Strength <sup>2</sup>			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)	6.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	150 to 170	°C	
NOTE			
1.	F50		
2.	Blown Film		

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

