

# Riblene® FF 39 F

Low Density Polyethylene

Versalis S.p.A.

## Message:

Riblene FF 39 F is a high molecular weight low density polyethylene (LDPE), suitable for blown film extrusion. Riblene FF 39 F is characterised by a good melt strength leading to a good bubble stability during extrusion.

Films manufactured by Riblene FF 39 F are easily heat shrinkable and characterised by good optical and mechanical properties.

### Main Application

Riblene FF 39 F is recommended for the production of shrink film for medium and light loads, for lamination film and for blend.

General Information			
Features	Food Contact Acceptable		
	Good Heat Shrinkability		
	Good Melt Strength		
	High Molecular Weight		
	Low Density		
	Opticals		
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	0.924	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	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	70	µm	
Film Thickness - Recommended / Available	30 to 120 µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 70 µm, Blown Film	180	MPa	
1% Secant, TD : 70 µm, Blown Film	190	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 70 µm, Blown Film	11.0	MPa	
TD : Yield, 70 µm, Blown Film	12.0	MPa	

MD : Break, 70 μm, Blown Film	22.0	MPa	
TD : Break, 70 μm, Blown Film	20.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 70 μm, Blown Film	400	%	
TD : Break, 70 μm, Blown Film	600	%	
Dart Drop Impact <sup>1</sup> (70 μm, Blown Film)	180	g	ISO 7765-1
Elmendorf Tear Strength <sup>2</sup>			ISO 6383-2
MD : 70.0 μm	45.0	kN/m	
TD : 70.0 μm	60.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	95.0	°C	ISO 306/A
Melting Temperature	114	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 70.0 μm, Blown Film)	70		ASTM D2457
Haze (70.0 μm, Blown Film)	6.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 200	°C	
NOTE			
1.	F50		
2.	Blown Film		

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