

# Flexirene® CL 10 F

Linear Low Density Polyethylene

Versalis S.p.A.

## Message:

Flexirene CL 10 is a butene copolymer linear low density polyethylene (C4-LLDPE), with antioxidants, suitable for cast extrusion of thin film with high optical properties.

### Main Application

Flexirene CL 10 is recommended for the production of stretch film to be used both in manual and in automatic wrapping machines. In a multilayer film, Flexirene CL 10 enhances the optical properties of the global formulation; moreover, for its high processability, the resin is recommended whenever high productivity has to be reached.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Butene Comonomer		
	Copolymer		
	Food Contact Acceptable		
	Low Density		
	Opticals		
Uses	Cast Film		
	Multilayer Film		
	Stretch Wrap		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Cast Film)	> 0.50		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	23	µm	
Film Thickness - Recommended / Available	10 to 50µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 23 µm, Cast Film	90.0	MPa	
1% Secant, TD : 23 µm, Cast Film	105	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 23 µm, Cast Film	9.00	MPa	

TD : Yield, 23 μm, Cast Film	8.00	MPa	
MD : Break, 23 μm, Cast Film	35.0	MPa	
TD : Break, 23 μm, Cast Film	25.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 23 μm, Cast Film	600	%	
TD : Break, 23 μm, Cast Film	800	%	
Dart Drop Impact <sup>1</sup> (23 μm, Cast Film)	100	g	ISO 7765-1
Elmendorf Tear Strength <sup>2</sup>			ISO 6383-2
MD : 23.0 μm	38.0	kN/m	
TD : 23.0 μm	103.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	97.0	°C	ISO 306/A
Melting Temperature	121	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 23.0 μm, Cast Film)	91		ASTM D2457
Haze (23.0 μm, Cast Film)	2.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	220 to 270	°C	
NOTE			
1.	F50		
2.	Cast Film		

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