

# Clearflex® CL 106

Linear Low Density Polyethylene

Versalis S.p.A.

## Message:

Clearflex CL 106 is a hexene copolymer linear low density polyethylene (C6-LLDPE), with antioxidants, suitable for cast film extrusion.

Films manufactured with Clearflex CL 106 are characterised by high clarity, optimum elongation at break, optimum impact and tear resistance.

### Main Application

Clearflex CL 106 is recommended for the production of low cling cast film with high optical properties and good mechanical resistance. It is ideal for the production of power stretch film characterized by a medium prestretch.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Tear Strength		
	Hexene Comonomer		
	High Clarity		
	Low Density		
Uses	Opticals		
	Cast Film		
	Film		
Agency Ratings	Stretch Wrap		
	EU Food Contact, Unspecified Rating		
	Pellets		
Forms	Cast Film		
Processing Method			
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.2	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	8 to 50µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 23 µm, Cast Film	180	MPa	
1% Secant, TD : 23 µm, Cast Film	190	MPa	
Tensile Stress			ISO 527-3

MD : Yield, 23 μm, Cast Film	10.0	MPa	
TD : Yield, 23 μm, Cast Film	10.0	MPa	
MD : Break, 23 μm, Cast Film	38.0	MPa	
TD : Break, 23 μm, Cast Film	29.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 23 μm, Cast Film	500	%	
TD : Break, 23 μm, Cast Film	800	%	
Dart Drop Impact <sup>1</sup> (23 μm, Cast Film)	120	g	ISO 7765-1
Elmendorf Tear Strength <sup>2</sup>			ISO 6383-2
MD : 23.0 μm	120.0	kN/m	
TD : 23.0 μm	230.0	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	125	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 23.0 μm, Cast Film)	90		ASTM D2457
Haze (23.0 μm, Cast Film)	2.5	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	220 to 270	°C	
NOTE			
1.	F50		
2.	Cast Film		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### 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



WECHAT