

# Clearflex® H&T; CLH 108

Linear Low Density Polyethylene

Versalis S.p.A.

## Message:

Clearflex H&T CLH 108 is an octene copolymer linear low density polyethylene (C8-LLDPE), with antioxidants, suitable for cast film extrusion.

Stretch films obtained from Clearflex H&T CLH 108 show excellent optical properties, high fracture mechanical characteristics, together with excellent performances in automatic wrapping machines (holding force, prestretch).

### Main Application

Clearflex H&T CLH 108 is suggested for production of very-high pre-stretch film. The combination of high mechanical properties and low gel content can allow "downgauging" for many applications. In addition to that, for its high resistance to tear propagation and to puncture, together with an outstanding holding force, Clearflex H&T CLH 108 is recommended for "critical" packaging (i.e irregular shape loads, presence of sharp edges, etc...) or loads subjected to severe mechanical stresses during transportation.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Stretchability		
	Good Tear Strength		
	Low Density		
	Low Gel		
	Octene Comonomer		
	Opticals		
	Puncture Resistant		
Uses	Cast Film		
	Packaging		
	Stretch Wrap		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	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	140	MPa	
1% Secant, TD : 23 µm, Cast Film	150	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 23 µm, Cast Film	9.00	MPa	
TD : Yield, 23 µm, Cast Film	10.0	MPa	
MD : Break, 23 µm, Cast Film	48.0	MPa	
TD : Break, 23 µm, Cast Film	40.0	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)	170	g	ISO 7765-1
Elmendorf Tear Strength <sup>2</sup>			ISO 6383-2
MD : 23.0 µm	130.0	kN/m	
TD : 23.0 µm	170.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	95.0	°C	ISO 306/A
Melting Temperature	120	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 23.0 µm, Cast Film)	93		ASTM D2457
Haze (23.0 µm, Cast Film)	0.80	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	220 to 270	°C	
NOTE			
1.	F50		
2.	Cast Film		

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