

Clearflex® H&T; CLH 196

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex H&T CLH 196 is a hexene copolymer linear low density polyethylene (C6-LLDPE), with antioxidants, suitable for cast film extrusion.

Stretch films manufactured with Clearflex H&T CLH 196 have outstanding fracture mechanical properties, mainly Elmendorf tear strength along machine direction (MD) and puncture resistance. Moreover, the holding force is the key property of these films when used in automatic wrapping machines

Main Application

Clearflex H&T CLH 196 is recommended for production of super-power stretch films. Its properties, especially in terms of holding force and puncture resistance, make Clearflex H&T CLH 196 the ideal choice for packaging goods of irregular shape and for applications requiring a superior mechanical strength.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Stretchability		
	Good Tear Strength		
	Hexene Comonomer		
	High Strength		
	Low Density		
	Puncture Resistant		
Uses	Cast Film		
	Film		
	Packaging		
	Stretch Wrap		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.916	g/cm ³	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	140	MPa	
Tensile Stress			ISO 527-3
MD : Yield, 23 μm, Cast Film	8.00	MPa	
TD : Yield, 23 μm, Cast Film	9.00	MPa	
MD : Break, 23 μm, Cast Film	38.0	MPa	
TD : Break, 23 μm, Cast Film	30.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 23 μm, Cast Film	600	%	
TD : Break, 23 μm, Cast Film	800	%	
Dart Drop Impact ¹ (23 μm, Cast Film)	300	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 23.0 μm	140.0	kN/m	
TD : 23.0 μm	250.0	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	123	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 23.0 μm, Cast Film)	92		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		

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