

Clearflex® H&T; CLH 156

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex H&T CLH 156 is a linear low density polyethylene resin, with antioxidants, suitable for cast film extrusion.

Stretch films obtained from Clearflex H&T CLH 156 show good optical properties, high puncture and dart resistance together with optimum performances in automatic wrapping machines (pre-stretch).

Main Application

Clearflex H&T CLH 156 is recommended to produce medium/high pre-stretch film. Moreover, the combination of high mechanical properties and low gel content, together with a low cling effect, makes Clearflex H&T CLH 156, even pure, the right choice in coextruded structures to produce high performance thin stretch film.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Stretchability		
	Low Density		
	Low Gel		
	Opticals		
Uses	Puncture Resistant		
	Cast Film		
	Stretch Wrap		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Cast Film		
	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.919	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	130	MPa	
1% Secant, TD : 23 µm, Cast Film	140	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	30.0	MPa	
TD : Break, 23 μm, Cast Film	25.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 23 μm, Cast Film	400	%	
TD : Break, 23 μm, Cast Film	600	%	
Dart Drop Impact ¹ (23 μm, Cast Film)	180	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD : 23.0 μm	100.0	kN/m	
TD : 23.0 μm	150.0	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)	91		ASTM D2457
Haze (23.0 μm, Cast Film)	1.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	220 to 270	°C	
NOTE			
1.	F50		
2.	Cast Film		

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