

Clearflex® H&T CLH D0

Very Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex CLH D0 is a linear low density polyethylene, with antioxidants, characterised by a very low density (VLDPE).

This resin is produced with a proprietary technology. Stretch films manufactured with Clearflex CLH D0 have high stretchability, outstanding clarity and very high constancy in cling effect.

Main Applications

Clearflex CLHD0 is recommended in all applications where outstanding flexibility and toughness are required. Its peculiar macromolecular structure, as a result of a "unique" proprietary catalyst employed, makes Clearflex CLHD0 the ideal choice for wire and cable compounding and, due to its excellent polyolefin compatibility and fillers acceptance, Clearflex CLHD0 is recommended as impact modifier of PP, with or without mineral fillers.

General Information			
Additive	Antioxidation		
Features	Antioxidation		
	Definition, high		
	Compliance of Food Exposure		
Uses	Films		
	cast film		
Agency Ratings	European food contact, not rated		
Forms	Particle		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Dynamic, Cast Film)	> 0.50		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	23	µm	
Film Thickness - Recommended / Available	8 to 50 µm		
Tensile Modulus			ISO 527-3
1% sectioning, MD: 23 µm, cast film	40.0	MPa	ISO 527-3
1% sectioning, TD: 23 µm, cast film	50.0	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: yield, 23 µm, cast film	5.00	MPa	ISO 527-3
TD: yield, 23 µm, cast film	5.00	MPa	ISO 527-3
MD: fracture, 23 µm, casting film	31.0	MPa	ISO 527-3
TD: fracture, 23 µm, casting film	26.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3

MD: fracture, 23 μm, casting film	600	%	ISO 527-3
TD: fracture, 23 μm, casting film	800	%	ISO 527-3
Dart Drop Impact (23 μm, Cast Film)	230	g	ISO 7765-1/A
Elmendorf Tear Strength ¹			ISO 6383-2
MD : 23.0 μm	40.0	kN/m	ISO 6383-2
TD : 23.0 μm	82.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	62.0	°C	ISO 306/A
Melting Temperature	105	°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)	1.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	220 - 270	°C	
NOTE			

1. Cast Film

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