

Clearflex® H&T CL 506

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex CL 506 is an hexene copolymer linear medium density polyethylene (C6-LMDPE), with antioxidants, suitable for cast film extrusion.

Films manufactured with Clearflex CL 506 exhibit a good balance between rigidity and stretchability.

Main Applications

Clearflex CL 506 is recommended for the production of film characterized by good mechanical resistance and high rigidity (hygienic film). Its high Vicat softening point makes Clearflex CL 506 the ideal choice for the production of films for food which are submitted to pasteurisation or sterilisation process.

Clearflex XL 506 is ideal choice for the production of artificial grass.

General Information			
Additive	Antioxidation		
Features	hexene comonomer		
	Antioxidation		
	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	0.935	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.7	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	300	MPa	ISO 527-3
1% sectioning, TD: 23 µm, cast film	350	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: yield, 23 µm, cast film	16.0	MPa	ISO 527-3
TD: yield, 23 µm, cast film	17.0	MPa	ISO 527-3
MD: fracture, 23 µm, casting film	35.0	MPa	ISO 527-3
TD: fracture, 23 µm, casting film	30.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: fracture, 23 µm, casting film	650	%	ISO 527-3

TD: fracture, 23 μm, casting film	800	%	ISO 527-3
Dart Drop Impact (23 μm, Cast Film)	40	g	ISO 7765-1/A
Elmendorf Tear Strength ¹			ISO 6383-2
MD : 23.0 μm	20.0	kN/m	ISO 6383-2
TD : 23.0 μm	80.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	119	°C	ISO 306/A
Melting Temperature	129	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 23.0 μm, Cast Film)	80		ASTM D2457
Haze (23.0 μm, Cast Film)	4.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	220 - 270	°C	
NOTE			

1. Cast Film

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