Clearflex® H&T CHH 196

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex H&T CHH 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 CHH 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 Applications
Clearflex H&T CHH 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 CHH 196 the ideal choice for packaging goods of irregular shape and for applications requiring a superior mechanical strength.

General Information			
Additive	Antioxidation		
Features	hexene comonomer Perforation resistance Antioxidation Good tear strength Compliance of Food Exposure		
Uses	Packaging Films Stretch winding cast film		
Agency Ratings	European food contact, not rated		
Forms	Particle		
Processing Method	cast film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.916	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.9	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	145	MPa	ISO 527-3
1% sectioning, TD: 23 µm, cast film	140	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: yield, 23 µm, cast film	8.00	MPa	ISO 527-3

TD: yield, 23 µm, cast film	9.00	MPa	ISO 527-3
MD: fracture, 23 µm, casting film	40.0	MPa	ISO 527-3
TD: fracture, 23 µm, casting film	32.0	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)	330	g	ISO 7765-1/A
Elmendorf Tear Strength [1]			ISO 6383-2
MD : 23.0 µm	130.0	kN/m	ISO 6383-2
TD : 23.0 µm	240.0	kN/m	ISO 6383-2
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 - 270	°C	
NOTE			
1.	Cast Film		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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