

CLEARFLEX® H&T

CHH 196

LLDPE

Linear low density polyethylene

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.

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.

Main Properties

Resin Properties	Value	Unit	Test Method
Melt Flow Rate (190 °C/2,16 kg)	1,9	g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)	-	g/10min	ISO 1133
Melt Flow Rate (190 °C/21,6 kg)	-	g/10min	ISO 1133
Density	0,916	g/cm ³	ISO 1183
Melting Point	123	°C	Internal method
Brittleness temperature	< -70	°C	ASTM D 746
Vicat softening point (1 kg)	95	°C	ISO 306/A

Film Properties *	Value	Unit	Test Method
Tensile stress at yield MD	8	MPa	ISO 527-3
Tensile stress at yield TD	9	MPa	ISO 527-3
Tensile stress at break MD	40	MPa	ISO 527-3
Tensile stress at break TD	32	MPa	ISO 527-3
Elongation at break MD	580	%	ISO 527-3
Elongation at break TD	750	%	ISO 527-3
1% Secant modulus MD	140	MPa	ISO 527-3
1% Secant modulus TD	140	MPa	ISO 527-3
Elmendorf tear resistance MD	145	N/mm	ISO 6383-2
Elmendorf tear resistance TD	300	N/mm	ISO 6383-2
Impact resistance F50 (Dart Drop Test)	350	g	ISO 7765-1/A
Dynamic coefficient of friction (COF)	> 0,5	-	ISO 8295
Haze	2,5	%	ISO 14782
Gloss, 45°	92	%	ASTM D 2457
Recommended film thickness	8 ÷ 50	micron	-



Processing notes

Clearflex H&T CHH 196 is easily processable using cast film technology. Melt temperature should be between 220 °C and 270 °C. Clearflex H&T CHH 196 can be extruded at thickness below 15 µm.

Storage and Handling

Clearflex H&T CHH 196 is supplied in pellet form. This material may readily be conveyed and bulk fed through equipment designed for conventional pelletised polyethylene resin, provided the equipment is designed to prevent accumulation of the fines and dust particles that are contained in all polyethylene resins. These fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used be equipped with filters of adequate size, operated and maintained in such a manner to ensure that no leaks develop and earthed adequately. We further recommend that good housekeeping should be practised throughout your facility.

The product should be stored in dry conditions at temperatures below 50 °C and protected from sunlight.

Improper storage can initiate degradation which results in odour generation, colour changes and can have negative effects on the physical properties of the product.

Before using this product it is recommended to read and understand the relevant Safety Data Sheet.

Availability

Contact the Versalis sales office nearest to you regarding availability and your specific application requirements.

Food Contact Status

Clearflex H&T CHH 196 complies with the rules and regulations of the European Union, as well as other countries, regarding the use of plastic materials in food contact applications. Certificates of compliance are available upon request.

