

CLEARFLEX® H&T

LLDPE

FGH 196 A

Linear low density polyethylene

Clearflex H&T FGH 196 A is a hexene copolymer linear low density polyethylene (C6-LLDPE), with antioxidants and processing aid, suitable for blown film extrusion.

Films obtained from Clearflex H&T FGH 196 A show excellent optical properties, a wide sealing window, both hot tack and heat seal, together with a low sealing initiation temperature (S.I.T.) and outstanding impact, puncture and Elmendorf tear resistance.

Main Applications

Clearflex H&T FGH 196 A, for its overall characteristics, is the right choice for all applications, like silage stretch film, low thickness high clarity packaging film, requiring a superior mechanical strength. Moreover, the excellent sealability behaviour makes it ideal for lamination film production.

Main Properties

Resin Properties	Value	Unit	Test Method
Melt Flow Rate (190 °C/2.16 kg)	0.9	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	35	MPa	ISO 527-3
Elongation at break MD	500	%	ISO 527-3
Elongation at break TD	700	%	ISO 527-3
1% Secant modulus MD	170	MPa	ISO 527-3
1% Secant modulus TD	200	MPa	ISO 527-3
Elmendorf tear resistance MD	160	N/mm	ISO 6383-2
Elmendorf tear resistance TD	260	N/mm	ISO 6383-2
Impact resistance F50 (Dart Drop Test)	390	g	ISO 7765-1/B
Dynamic coefficient of friction (COF)	> 0.5	-	ISO 8295
Haze	7	%	ISO 14782
Gloss, 45°	70	%	ASTM D 2457
Recommended film thickness	10 ÷ 50	micron	-



Processing notes

Clearflex H&T FGH 196 A is easily processable using blown film technology. Melt temperature should be between 190°C and 230°C. Clearflex H&T FGH 196 can be extruded at thickness below 15 µm.

Storage and Handling

Clearflex H&T FGH 196 A 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 FGH 196 A 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.

