

## Polimeri Europa Clearflex® H&T FGH 196 Hexene Copolymer Linear Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Hexene, Film Grade

### Material Notes:

Clearflex H&T FGH 196 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 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, 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 behavior makes it ideal for lamination film production. Information provided by Polimeri Europa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polimeri-Europa-Clearflex-HT-FGH-196-Hexene-Copolymer-Linear-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-HT-FGH-196-Hexene-Copolymer-Linear-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.916 g/cc	0.916 g/cc	ISO 1183
Thickness	10.0 - 50.0 microns	0.394 - 1.97 mil	Recommended
Melt Flow	0.90 g/10 min @Load 2.16 kg, Temperature 190 °C	0.90 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.00 MPa	1160 psi	ISO 527-3
Film Tensile Strength at Yield, TD	9.00 MPa	1310 psi	ISO 527-3
Film Elongation at Break, MD	500 %	500 %	ISO 527-3
Film Elongation at Break, TD	700 %	700 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	16.304 g/micron	414.12 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	26.494 g/micron	672.95 g/mil	ISO 6383-2
Dart Drop Test	390 g	0.860 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	40.0 MPa	5800 psi	ISO 527-3
Film Tensile Strength at Break, TD	35.0 MPa	5080 psi	ISO 527-3
1% Secant Modulus, MD	170 MPa	24700 psi	ISO 527-3
1% Secant Modulus, TD	200 MPa	29000 psi	ISO 527-3

Mechanical Properties	Metric	English	Comments
Melting Point	123 °C	253 °F	Internal method
Vicat Softening Point	95.0 °C @Load 1.00 kg	203 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ISO 14782
Gloss	70 %	70 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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