

Polimeri Europa Clearflex® H&T CLH 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 CLH 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 CLH 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 CLH 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 CLH 196 the ideal choice for packaging goods of irregular shape and for applications requiring a superior mechanical strength. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-HT-CLH-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	8.00 - 50.0 microns	0.315 - 1.97 mil	Recommended
Melt Flow	2.5 g/10 min @Load 2.16 kg, Temperature 190 °C	2.5 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	600 %	600 %	ISO 527-3
Film Elongation at Break, TD	800 %	800 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	14.266 g/micron	362.36 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	25.475 g/micron	647.07 g/mil	ISO 6383-2
Dart Drop Test	300 g	0.662 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	38.0 MPa	5510 psi	ISO 527-3
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	ISO 527-3
1% Secant Modulus, MD	140 MPa	20300 psi	ISO 527-3
1% Secant Modulus, TD	140 MPa	20300 psi	ISO 527-3

Mechanical Properties	Metric	English	Comments
Thermal 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	2.5 %	2.5 %	ISO 14782
Gloss	92 %	92 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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