

Polimeri Europa Clearflex® H&T CLH 108 Octene Copolymer Linear Low Density Polyethylene

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

Material Notes:

Clearflex H&T CLH 108 is an octene copolymer linear low density polyethylene (C8-LLDPE), with antioxidants, suitable for cast film extrusion. Stretch films obtained from Clearflex H&T CLH 108 show excellent optical properties, high fracture mechanical characteristics, together with excellent performances in automatic wrapping machines (holding force, pre-stretch). Main Applications: Clearflex H&T CLH 108 is suggested for production of very-high pre-stretch film. The combination of high mechanical properties and low gel content can allow "downgauging" for many applications. In addition to that, for its high resistance to tear propagation and to puncture, together with an outstanding holding force, Clearflex H&T CLH 108 is recommended for "critical" packaging (i.e. irregular shape loads, presence of sharp edges, etc...) or loads subjected to severe mechanical stresses during transportation. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-HT-CLH-108-Octene-Copolymer-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.919 g/cc	0.919 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	9.00 MPa	1310 psi	ISO 527-3
Film Tensile Strength at Yield, TD	10.0 MPa	1450 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	13.247 g/micron	336.47 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	17.323 g/micron	440.00 g/mil	ISO 6383-2
Dart Drop Test	170 g	0.375 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	48.0 MPa	6960 psi	ISO 527-3
Film Tensile Strength at Break, TD	40.0 MPa	5800 psi	ISO 527-3
1% Secant Modulus, MD	140 MPa	20300 psi	ISO 527-3

1% Secant Modulus, TD Mechanical Properties	150 MPa Metric	21800 psi English	ISO 527-3 Comments
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Thermal Properties	Metric	English	Comments
Melting Point	120 °C	248 °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	0.80 %	0.80 %	ISO 14782
Gloss	93 %	93 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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