

Polimeri Europa Clearflex® H&T CMH 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 CMH 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 CMH 108 show excellent optical properties, high puncture and tear resistance along machine direction together with excellent performances in automatic wrapping machines (pre-stretch). Main Applications: Clearflex H&T CMH 108, for its rheological behavior, is recommended in all special applications where ease of processing is a key issue. Moreover, thanks to an optimum combination between fracture mechanical properties (mainly puncture and MD Elmendorf tear resistance) and pre-stretch performances, Clearflex H&T CMH 108 is suggested to manufacture super power stretch cast film. Information provided by Polimeri Europa.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	ISO 1183
Thickness	8.00 - 50.0 microns	0.315 - 1.97 mil	Recommended
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 190 °C	3.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.0 MPa	1450 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	17.323 g/micron	440.00 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	23.437 g/micron	595.30 g/mil	ISO 6383-2
Dart Drop Test	200 g	0.441 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	42.0 MPa	6090 psi	ISO 527-3
Film Tensile Strength at Break, TD	35.0 MPa	5080 psi	ISO 527-3
1% Secant Modulus, MD	145 MPa	21000 psi	ISO 527-3
1% Secant Modulus, TD	155 MPa	22500 psi	ISO 527-3

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	122 °C	252 °F	Internal method
Vicat Softening Point	97.0 °C @Load 1.00 kg	207 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	0.50 %	0.50 %	ISO 14782
Gloss	93 %	93 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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