

Polimeri Europa Clearflex® H&T LFH 208 Octene Copolymer Linear Low Density Polyethylene

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

Material Notes:

Clearflex H&T LFH 208 is an octene copolymer linear low density polyethylene (C8-LLDPE), with antioxidants and processing aid, suitable for blown film extrusion. Films obtained from Clearflex H&T LFH 208 have excellent optical properties (haze and gloss), wide sealing temperature window, together with optimal sealing resistance, outstanding tear, impact and puncture resistance. Its properties make Clearflex H&T LFH 208 the right choice for top end performance applications. Main Applications: Due to its excellent sealing behavior, Clearflex H&T LFH 208 is recommended for packaging food and edible fats and for applications requiring a superior sealing performance. Its very low gel content makes it ideal for lamination. Clearflex H&T LFH 208 is also recommended for silage stretch film production, due to its outstanding mechanical properties. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-HT-LFH-208-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	10.0 - 50.0 microns	0.394 - 1.97 mil	Recommended
Melt Flow	0.75 g/10 min @Load 2.16 kg, Temperature 190 °C	0.75 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	750 %	750 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	18.342 g/micron	465.89 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	25.475 g/micron	647.07 g/mil	ISO 6383-2
Dart Drop Test	250 g	0.551 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	50.0 MPa	7250 psi	ISO 527-3
Film Tensile Strength at Break, TD	45.0 MPa	6530 psi	ISO 527-3
1% Secant Modulus, MD	200 MPa	29000 psi	ISO 527-3

1% Secant Modulus, TD Mechanical Properties	250 MPa Metric	36300 psi English	ISO 527-3 Comments
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Thermal Properties	Metric	English	Comments
Melting Point	119 °C	246 °F	Internal method
Vicat Softening Point	102 °C @Load 1.00 kg	216 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	9.0 %	9.0 %	ISO 14782
Gloss	60 %	60 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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