

Polimeri Europa Clearflex® H&T LGH 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 LGH 108 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 LGH 108 have excellent optical properties, a wide sealing window, both hot tack and hot seal, together with a low sealing initiation temperature (S.I.T.) and outstanding impact, puncture and Elmendorf tear resistance. Main Applications: Clearflex H&T LGH 108, for its overall characteristics, is the right choice for packaging film applications, bioriented film requiring superior mechanical and optical properties. Moreover, the excellent sealability behavior together with low gel content 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-LGH-108-Octene-Copolymer-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.917 g/cc	0.917 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	9.00 MPa	1310 psi	ISO 527-3
Film Tensile Strength at Yield, TD	9.00 MPa	1310 psi	ISO 527-3
Film Elongation at Break, MD	450 %	450 %	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	13.247 g/micron	336.47 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	21.399 g/micron	543.53 g/mil	ISO 6383-2
Dart Drop Test	400 g	0.882 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	45.0 MPa	6530 psi	ISO 527-3
Film Tensile Strength at Break, TD	45.0 MPa	6530 psi	ISO 527-3
1% Secant Modulus, MD	160 MPa	23200 psi	ISO 527-3
1% Secant Modulus, TD	170 MPa	24700 psi	ISO 527-3

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	117 °C	243 °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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