

Polimeri Europa Clearflex® H&T LGH 138 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 138 is an octene copolymer linear low density polyethylene (C8-LLDPE), with antioxidants, slip agent, antiblocking and processing aid, suitable for blown film extrusion. Films obtained from Clearflex H&T LGH 138 show 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 138, for its overall characteristics, is the right choice for packaging film applications requiring superior mechanical and optical properties. 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-138-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	0.11	0.11	ISO 8295
Elmendorf Tear Strength, MD	11.209 g/micron	284.71 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	20.38 g/micron	517.7 g/mil	ISO 6383-2
Dart Drop Test	350 g	0.772 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	40.0 MPa	5800 psi	ISO 527-3
Film Tensile Strength at Break, TD	40.0 MPa	5800 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	11 %	11 %	ISO 14782
Gloss	55 %	55 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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