

Polimeri Europa Clearflex® H&T CLH 150 Linear Low Density Polyethylene

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

Material Notes:

Clearflex H&T CLH 150 is a linear low density polyethylene resin, with antioxidants, suitable for cast film extrusion. Stretch films obtained from Clearflex H&T CLH 150 show good optical properties, high puncture and dart resistance together with optimum performances in automatic wrapping machines (pre-stretch). Main Applications: Clearflex H&T CLH 150 is recommended to produce medium/high pre-stretch film. Moreover, the combination of high mechanical properties and low gel content, together with a low cling effect, makes Clearflex H&T CLH 150, even pure, the right choice in coextruded structures to produce high performance thin stretch film. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-HT-CLH-150-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	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	400 %	400 %	ISO 527-3
Film Elongation at Break, TD	600 %	600 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	10.19 g/micron	258.8 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	15.285 g/micron	388.24 g/mil	ISO 6383-2
Dart Drop Test	180 g	0.397 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	30.0 MPa	4350 psi	ISO 527-3
Film Tensile Strength at Break, TD	25.0 MPa	3630 psi	ISO 527-3
1% Secant Modulus, MD	130 MPa	18900 psi	ISO 527-3
1% Secant Modulus, TD	140 MPa	20300 psi	ISO 527-3

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	1.0 %	1.0 %	ISO 14782
Gloss	91 %	91 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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