

Polimeri Europa Clearflex® H&T FHH 508 Octene Copolymer Linear Medium Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE , Linear Medium Density Polyethylene (LMDPE), Film

Material Notes:

Clearflex H&T FHH 508 is an octene copolymer linear medium density polyethylene (C8-LMDPE), with antioxidant, suitable for blown film extrusion. Films obtained from Clearflex H&T FHH 508 show good optical properties, high rigidity, high temperature resistance and excellent sealing properties. Main Applications: For its excellent optical properties and sealing performance, together with a very low gel content, Clearflex H&T FHH 508, is the ideal choice for the production of lamination films. Due to its softening point, Clearflex H&T FHH 508 is especially recommended for flexible packaging that have to withstand heat cycles such as cook-in films. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-HT-FHH-508-Octene-Copolymer-Linear-Medium-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.935 g/cc	0.935 g/cc	ISO 1183
Thickness	10.0 - 50.0 microns	0.394 - 1.97 mil	Recommended
Melt Flow	1.5 g/10 min @Load 2.16 kg, Temperature 190 °C	1.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	16.0 MPa	2320 psi	ISO 527-3
Film Tensile Strength at Yield, TD	18.0 MPa	2610 psi	ISO 527-3
Film Elongation at Break, MD	600 %	600 %	ISO 527-3
Film Elongation at Break, TD	900 %	900 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	3.057 g/micron	77.65 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	13.247 g/micron	336.47 g/mil	ISO 6383-2
Dart Drop Test	70.0 g	0.154 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	40.0 MPa	5800 psi	ISO 527-3
1% Secant Modulus, MD	430 MPa	62400 psi	ISO 527-3

1% Secant Modulus, TD Mechanical Properties	500 MPa Metric	72500 psi English	ISO 527-3 Comments
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Thermal Properties	Metric	English	Comments
Melting Point	127 °C	261 °F	Internal method
Vicat Softening Point	117 °C @Load 1.00 kg	243 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	13 %	13 %	ISO 14782
Gloss	60 %	60 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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