

Polimeri Europa Clearflex® FH 50 Linear Medium Density Polyethylene

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

Material Notes:

Clearflex FH 50 is a linear medium density polyethylene, with antioxidants, suitable for blown film extrusion. Films manufactured with Clearflex FH 50 are characterized by a good balance between toughness and rigidity, have high temperature resistance together with optimum sealing properties. Main Applications: Due to its mechanical properties and excellent processability, Clearflex FH 50 is recommended in coextrusion for the production of film having good rigidity. Moreover, its very low gel content makes the resin ideal for lamination. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-FH-50-Linear-Medium-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.936 g/cc	0.936 g/cc	ISO 1183
Thickness	10.0 - 50.0 microns	0.394 - 1.97 mil	Recommended
Melt Flow	1.8 g/10 min @Load 2.16 kg, Temperature 190 °C	1.8 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	650 %	650 %	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	0.8152 g/micron	20.71 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	10.19 g/micron	258.8 g/mil	ISO 6383-2
Dart Drop Test	50.0 g	0.110 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	35.0 MPa	5080 psi	ISO 527-3
Film Tensile Strength at Break, TD	25.0 MPa	3630 psi	ISO 527-3
1% Secant Modulus, MD	450 MPa	65300 psi	ISO 527-3
1% Secant Modulus, TD	500 MPa	72500 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
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	18 %	18 %	ISO 14782
Gloss	55 %	55 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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