

## Polimeri Europa Clearflex® FG 106 Hexene Copolymer Linear Low Density Polyethylene

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

### Material Notes:

Clearflex FG 106 is a hexene copolymer linear low density polyethylene (C6-LLDPE), with antioxidants, suitable for blown film extrusion. Films manufactured with Clearflex FG 106 are characterized by excellent optical properties (haze and gloss), optimum sealing performances and high mechanical properties. Main Applications: Clearflex FG 106 is recommended for the production of agricultural film, blown stretch film coextruded or blended with LDPE. Information provided by Polimeri Europa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polimeri-Europa-Clearflex-FG-106-Hexene-Copolymer-Linear-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-FG-106-Hexene-Copolymer-Linear-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.918 g/cc	0.918 g/cc	ISO 1183
Thickness	10.0 - 50.0 microns	0.394 - 1.97 mil	Recommended
Melt Flow	1.1 g/10 min @Load 2.16 kg, Temperature 190 °C	1.1 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	10.0 MPa	1450 psi	ISO 527-3
Film Elongation at Break, MD	600 %	600 %	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	23.437 g/micron	595.30 g/mil	ISO 6383-2
Dart Drop Test	160 g	0.353 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	45.0 MPa	6530 psi	ISO 527-3
1% Secant Modulus, MD	180 MPa	26100 psi	ISO 527-3
1% Secant Modulus, TD	210 MPa	30500 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	101 °C @Load 1.00 kg	214 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	10 %	10 %	ISO 14782
Gloss	60 %	60 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

## Contact Songhan Plastic Technology Co.,Ltd.

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