

Polimeri Europa Clearflex® FG 306 Hexene Copolymer Linear Low Density Polyethylene

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

Material Notes:

Clearflex FG 306 is a hexene copolymer linear low density polyethylene (C6-LLDPE), with antioxidant, antiblocking and processing aid, suitable for blown film extrusion. Films manufactured with Clearflex FG 306 are characterized by good balance between rigidity, impact resistance and tear resistance (Elmendorf). Main Applications: Clearflex FG 306 is recommended for the production of heavy duty bags, both in coextrusion and in blending with LDPE. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-FG-306-Hexene-Copolymer-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.926 g/cc	0.926 g/cc	ISO 1183
Thickness	10.0 - 50.0 microns	0.394 - 1.97 mil	Recommended
Melt Flow	0.80 g/10 min @Load 2.16 kg, Temperature 190 °C	0.80 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	12.0 MPa	1740 psi	ISO 527-3
Film Tensile Strength at Yield, TD	13.0 MPa	1890 psi	ISO 527-3
Film Elongation at Break, MD	550 %	550 %	ISO 527-3
Film Elongation at Break, TD	740 %	740 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	8.3558 g/micron	212.24 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	25.475 g/micron	647.07 g/mil	ISO 6383-2
Dart Drop Test	120 g	0.265 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	45.0 MPa	6530 psi	ISO 527-3
Film Tensile Strength at Break, TD	36.0 MPa	5220 psi	ISO 527-3
1% Secant Modulus, MD	190 MPa	27600 psi	ISO 527-3
1% Secant Modulus, TD	225 MPa	32600 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	110 °C @Load 1.00 kg	230 °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	52 %	52 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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