

Polimeri Europa Clearflex® FG 308 Octene Copolymer Linear Low Density Polyethylene

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

Material Notes:

Clearflex FG 308 is an octene copolymer linear low density polyethylene (C8-LLDPE), with antioxidant and processing aid, suitable for blown film extrusion. Films manufactured with Clearflex FG 308 are characterized by a good balance between optical properties and mechanical performances. Main Applications: Clearflex FG 308 is recommended for applications in which good mechanical properties and sealability are required (flexible packaging with a certain rigidity). It is also the right choice for the production of silage film, either in coextrusion or in blend with LDPE. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-FG-308-Octene-Copolymer-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.925 g/cc	0.925 g/cc	ISO 1183
Thickness	10.0 - 50.0 microns	0.394 - 1.97 mil	Recommended
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 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	12.0 MPa	1740 psi	ISO 527-3
Film Elongation at Break, MD	500 %	500 %	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	10.19 g/micron	258.8 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	25.475 g/micron	647.07 g/mil	ISO 6383-2
Dart Drop Test	150 g	0.331 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	42.0 MPa	6090 psi	ISO 527-3
1% Secant Modulus, MD	230 MPa	33400 psi	ISO 527-3
1% Secant Modulus, TD	250 MPa	36300 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	123 °C	253 °F	Internal method
Vicat Softening Point	107 °C @Load 1.00 kg	225 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ISO 14782
Gloss	55 %	55 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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