

Polimeri Europa Clearflex® FG B0 Very Low Density Polyethylene

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

Material Notes:

Clearflex FG B0 is a linear low density polyethylene, with antioxidants, suitable for blown film technology. Films made with Clearflex FG B0 are highly transparent, have good sealing properties, even at low temperature, and excellent mechanical properties. Main Applications: Clearflex FG B0 is recommended to produce blown stretch film and is used in blend or coextrusion because of its unique properties. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-FG-B0-Very-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.911 g/cc	0.911 g/cc	ISO 1183
Thickness	10.0 - 50.0 microns	0.394 - 1.97 mil	Recommended
Melt Flow	0.90 g/10 min @Load 2.16 kg, Temperature 190 °C	0.90 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	7.00 MPa	1020 psi	ISO 527-3
Film Tensile Strength at Yield, TD	7.00 MPa	1020 psi	ISO 527-3
Film Elongation at Break, MD	500 %	500 %	ISO 527-3
Film Elongation at Break, TD	800 %	800 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	7.133 g/micron	181.2 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	11.209 g/micron	284.71 g/mil	ISO 6383-2
Dart Drop Test	250 g	0.551 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	40.0 MPa	5800 psi	ISO 527-3
Film Tensile Strength at Break, TD	32.0 MPa	4640 psi	ISO 527-3
1% Secant Modulus, MD	90.0 MPa	13100 psi	ISO 527-3
1% Secant Modulus, TD	100 MPa	14500 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	120 °C	248 °F	Internal method

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

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	ISO 14782
Gloss	65 %	65 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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