

Polimeri Europa Clearflex® FG B3 Very Low Density Polyethylene

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

Material Notes:

Clearflex FG B3 is a linear low density polyethylene, with antioxidants, slip and antiblocking agents, suitable for blown film technology. The product is characterized by a very low density and a high molecular weight. Films made with Clearflex FG B3 are highly transparent, have good sealing properties, even at low temperature, and mechanical properties. It is the grade of Clearflex FG B0 with slip and antilock. Main Applications: Clearflex FG B0 is recommended for coextrusion to produce lamination 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-B3-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	700 %	700 %	ISO 527-3
Coefficient of Friction, Dynamic	0.15	0.15	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	35.0 MPa	5080 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
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	88.0 °C @Load 1.00 kg	190 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ISO 14782
Gloss	66 %	66 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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