

Polimeri Europa Clearflex® CL B0 Very Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Very Low Density Polyethylene (VLDPE)

Material Notes:

Clearflex CL B0 is a linear low density polyethylene, with antioxidants, characterized by a very low density (VLDPE). The resin has a high stretchability and a good cling effect. Main Applications: Clearflex CL B0 is recommended for applications in which soft touch and flexibility are required, for the improvement of impact resistance when used as additive in blend with other polyolefins formulated with or without mineral fillers. Clearflex CL B0 is also used as cling agent in stretch film. Information provided by Polimeri Europa.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	0.911 g/cc	0.911 g/cc	ISO 1183
Thickness	8.00 - 50.0 microns	0.315 - 1.97 mil	Recommended
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 190 °C	3.0 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	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	3.5665 g/micron	90.589 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	10.19 g/micron	258.8 g/mil	ISO 6383-2
Dart Drop Test	120 g	0.265 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	32.0 MPa	4640 psi	ISO 527-3
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ISO 527-3
1% Secant Modulus, MD	80.0 MPa	11600 psi	ISO 527-3
1% Secant Modulus, TD	90.0 MPa	13100 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	118 °C	244 °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	70 %	70 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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