

Polimeri Europa Clearflex® CL D0 Very Low Density Polyethylene

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

Material Notes:

Clearflex CL D0 is a linear low density polyethylene, with antioxidants, characterized by a very low density (VLDPE). This resin is produced with a proprietary technology. Stretch films manufactured with Clearflex CL D0 have high stretchability, outstanding clarity and a very high constancy in cling effect. Main Applications: Clearflex CL D0 is recommended as a cling agent in stretch film but is also used 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. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-CL-D0-Very-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 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	5.00 MPa	725 psi	ISO 527-3
Film Tensile Strength at Yield, TD	5.00 MPa	725 psi	ISO 527-3
Film Elongation at Break, MD	600 %	600 %	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	4.076 g/micron	103.5 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	8.3558 g/micron	212.24 g/mil	ISO 6383-2
Dart Drop Test	210 g	0.463 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	31.0 MPa	4500 psi	ISO 527-3
Film Tensile Strength at Break, TD	26.0 MPa	3770 psi	ISO 527-3
1% Secant Modulus, MD	40.0 MPa	5800 psi	ISO 527-3
1% Secant Modulus, TD	50.0 MPa	7250 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	54.0 °C	129 °F	ISO 306/A
	@Load 1.00 kg	@Load 2.20 lb	
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	1.5 %	1.5 %	ISO 14782
Gloss	84 %	84 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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