

DuPont Teijin Films Mylar® EL21 Polyester Film, 1400 Gauge

Category : Polymer , Film , Thermoplastic , Polyester, TP , Polyester Film

Material Notes:

Mylar® EL21 polyester films are flexible strong and durable films with an unusual balance of properties, making them suitable for a variety of industrial applications. The excellent dielectric strength, moisture resistance, and physical toughness make Mylar® EL21 a very versatile and functional insulating material. General Product Info: Mylar® EL21 films offer high dielectric strength, good chemical resistance, and exceptional durability in high-temperature environments. Typical Applications: Mylar® type EL21 films, similar to Mylar® type MO films, are heavy gauge insulating films designed for general purpose electrical/electronic applications, such as transformers, laminates, bus bars, and punched parts. Approvals: UL 94 VTM-2 - for 92-1400 gauge (0.023-0.35 mm) and UL Recognition - for 92-500 gauge (0.023-0.13mm) HWI=5, HAI=4, CTI=1; for 700-1400 gauge (0.18-0.35mm) HWI=4, HAI=0, CTI=1 Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-EL21-Polyester-Film-1400-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.3925 g/cc	0.050307 lb/in ³	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	170 %	170 %	ASTM D882A
Film Elongation at Break, TD	170 %	170 %	ASTM D882A
Film Tensile Strength at Break, MD	179 MPa	26000 psi	ASTM D882A
Film Tensile Strength at Break, TD	172 MPa	25000 psi	ASTM D882A

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.17 J/g-°C	0.280 BTU/lb-°F	Typical Mylar®
Melting Point	254 °C	489 °F	Typical Mylar® via DSC
Shrinkage, MD	1.3 % @Temperature 150 °C, Time 1800 sec	1.3 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	0.80 % @Temperature 150 °C, Time 1800 sec	0.80 % @Temperature 302 °F, Time 0.500 hour	Unrestrained

Optical Properties	Metric	English	Comments
Refractive Index	1.64 - 1.67	1.64 - 1.67	typical of Mylar®
Optical Density	46	46	[%]

Electrical Properties	Metric	English	Comments
Dielectric Strength	56.26 kV/mm	1429 kV/in	1/4" electrode 500 V/sec 25°C in air; ASTM D149
Dielectric Breakdown	20000 V	20000 V	1/4" electrode 500 V/sec 25°C in air; ASTM D149
Comparative Tracking Index	400 - 600 V	400 - 600 V	
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	

Descriptive Properties	Value	Comments
Yield (nominal)	1400 in ² /lb	

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