

DuPont Teijin Films Mylar® EL21 Polyester Film, 1000 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-1000-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.3925 g/cc	0.050307 lb/in³	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	150 %	150 %	ASTM D882A
Film Elongation at Break, TD	140 %	140 %	ASTM D882A
Film Tensile Strength at Break, MD	186 MPa	27000 psi	ASTM D882A
Film Tensile Strength at Break, TD	200 MPa	29000 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	1.5 % @Temperature 150 °C, Time 1800 sec	1.5 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	1.1 % @Temperature 150 °C, Time 1800 sec	1.1 % @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	42	42	[%]

Electrical Properties	Metric	English	Comments
Dielectric Strength	74.8 kV/mm	1900 kV/in	1/4" electrode 500 V/sec 25°C in air; ASTM D149
Dielectric Breakdown	19000 V	19000 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)	2000 in ² /lb	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China