

DuPont Teijin Films Mylar® EC Polyester Film, 400 Gauge

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

Material Notes:

Mylar® EC films are electrical grade films designed for use in applications where improved dimensional stability is required. In addition to lower levels of shrinkage, Mylar® EC films offer outstanding durability, chemical inertness, good dielectrics, and good handling characteristics. General Product Info: The outstanding strength, flexibility, and electrical properties of Mylar® EC films, combined with lower than normal shrinkage levels, make them especially suited for circuitry and membrane touch switch applications. The film's moisture and chemical resistance serve as a barrier to substances that could contaminate membrane touch switches. Typical Applications: The unique balance of properties offered by Mylar® EC films makes them ideal for membrane switches and flexible circuits used in a variety of consumer and industrial products, including automotive instrument clusters, computers, calculators, telephones, cameras, and appliances. Approvals: UL 94 VTM-2 - for 200 - 500 gauge (0.05 - 0.13mm) Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-EC-Polyester-Film-400-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	Typical Mylar®; ASTM D1505

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	165 MPa	24000 psi	ASTM D882A
Film Tensile Strength at Break, TD	179 MPa	26000 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	0.60 % @Temperature 150 °C, Time 1800 sec	0.60 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	0.20 % @Temperature 150 °C, Time 1800 sec	0.20 % @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®

Haze Optical Properties	26 % Metric	26 % English	ASTM D1003 Comments
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Electrical Properties	Metric	English	Comments
Dielectric Strength	115.2 kV/mm	2925 kV/in	1/4" electrode 500 V/sec 25°C in air; ASTM D149
Dielectric Breakdown	11700 V	11700 V	1/4" electrode 500 V/sec 25°C in air; ASTM D149

Descriptive Properties	Value	Comments
Yield (nominal)	5000 in ² /lb	

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