DuPont Teijin Films Mylar® EL Polyester Film, 92 Gauge

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

Material Notes:

Mylar® EL films, typically 48 through 500 gauge are strong, tough, general -purpose films for electrical/electronic uses. Heavier gauges of Mylar® EL films are similar to Mylar® MO films. Available in grades from clear to hazy, Mylar® EL films offer chemical inertness, good dielectrics, high temperature durability, and good handling characteristics. General Product Info: The superior electrical, mechanical, thermal, and chemical inertness characteristics of Mylar® type EL films make them ideally suited for electrical and electronic applications.Typical Applications: The outstanding strength, flexibility, and electrical properties of Mylar® type EL films make them well suited for many electrical and electronics applications. The good handling and winding characteristics make them especially suitable for coating, die cutting, embossing, and laminating operations.Approvals: UL 94 VTM-2 - for 92 - 500 gauge (0.023 - 0.13mm)Information provided by DuPont.

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-EL-Polyester-Film-92-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in³	Typical Mylar®; ASTM D1505

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	110 %	110 %	ASTM D882A
Film Elongation at Break, TD	90 %	90 %	ASTM D882A
Film Tensile Strength at Break, MD	193 MPa	28000 psi	ASTM D882A
Film Tensile Strength at Break, TD	234 MPa	34000 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	1.9 % @Temperature 150 °C, Time 1800 sec	1.9 % @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 Properties	Metric	English	Comments
Haze	16 %	16 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Dielectric Strength	171.2 kV/mm	4348 kV/in	1/4" electrode 500 V/sec 25°C in air; ASTM D149
Dielectric Breakdown	4000 V	4000 V	1/4" electrode 500 V/sec 25°C in air; ASTM D149

Descriptive Properties	Value	Comments
Yield (nominal)	21800 in^2/lb	

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