

## DuPont Teijin Films Mylar® EL21 Polyester Film, 900 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-900-Gauge.php](http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-EL21-Polyester-Film-900-Gauge.php)

| Physical Properties | Metric     | English                    | Comments |
|---------------------|------------|----------------------------|----------|
| Density             | 1.392 g/cc | 0.05029 lb/in <sup>3</sup> |          |

| Mechanical Properties              | Metric  | English   | Comments   |
|------------------------------------|---------|-----------|------------|
| Film Elongation at Break, MD       | 150 %   | 150 %     | ASTM D882A |
| Film Elongation at Break, TD       | 130 %   | 130 %     | 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          | 1.6 %<br>@Temperature 150 °C,<br>Time 1800 sec | 1.6 %<br>@Temperature 302 °F,<br>Time 0.500 hour | Unrestrained           |
| Shrinkage, TD          | 1.1 %<br>@Temperature 150 °C,<br>Time 1800 sec | 1.1 %<br>@Temperature 302 °F,<br>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    | 41          | 41          | [%]               |

| Electrical Properties      | Metric       | English      | Comments                                           |
|----------------------------|--------------|--------------|----------------------------------------------------|
| Dielectric Strength        | 80.47 kV/mm  | 2044 kV/in   | 1/4" electrode 500 V/sec 25°C in air;<br>ASTM D149 |
| Dielectric Breakdown       | 18400 V      | 18400 V      | 1/4" electrode 500 V/sec 25°C in air;<br>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)        | 2200 in <sup>2</sup> /lb |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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