

## DuPont Teijin Films Mylar® MDA Polyester Film, 92 Gauge

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

### Material Notes:

Mylar® MDA films are tough, general purpose films that are transparent in 48 through 92 gauge and translucent in heavier gauges. They have a rough surface to provide ease of handling, good adhesion, and processability. They are used for a broad range of industrial applications and may be suitable for use in medical applications. General Product Info: Mylar® MDA films have balanced tensile properties and excellent resistance to moisture and most chemicals. They can withstand temperature extremes from -100°F to 300°F. Mylar® does not become brittle with age under normal conditions, because it contains no plasticizers. Typical Applications: Apparel stays Book jackets Carbon ribbon Control Tape Drumheads Duct Liners Identifications Medical Applications Membrane touch switches Metallized Base Pressure Sensitive Labels (plain or metallized) Protective surfacing Release liners Roll leaf (hot stamping) Spirit Masters Approvals: FDA Food Contact Status - All gauges of Mylar® MDA comply with the Food and Drug Administration regulation 21 CFR 177.1630 -- Polyethylene phthalate polymers. This regulation describes films which may be safely used in contact with all types of food excluding alcoholic beverages. Uncoated films such as Mylar® MDA can be used to contain foods during oven cooking or oven baking at temperatures above 250 °F. Information provided by DuPont.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Teijin-Films-Mylar-MDA-Polyester-Film-92-Gauge.php](http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-MDA-Polyester-Film-92-Gauge.php)

| Physical Properties | Metric    | English                   | Comments                   |
|---------------------|-----------|---------------------------|----------------------------|
| Density             | 1.39 g/cc | 0.0502 lb/in <sup>3</sup> | 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 |
| Tensile Modulus                    | 3.50 GPa | 507 ksi   | ASTM D882  |
| 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 |
| Maximum Service Temperature, Air   | 149 °C   | 300 °F   |                        |
| Maximum Service Temperature, Inert | -73.3 °C                                       | -100 °F  |                        |
| Shrinkage, MD                      | 1.9 %<br>@Temperature 150 °C,<br>Time 1800 sec | 1.9 %<br>@Temperature 302 °F,<br>Time 0.500 hour | Unrestrained           |

| Thermal Properties | Metric                                | English                                 | Comments     |
|--------------------|---------------------------------------|---|--------------|
| Shrinkage, TD      | @Temperature 150 °C,<br>Time 1800 sec | @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®                     |
| Haze                  | 15 %        | 15 %        | ASTM D1003                            |
| Transmission, Visible | 90 %        | 90 %        | transparent; thickness not quantified |

| Descriptive Properties | Value                     | Comments |
|------------------------|---------------------------|----------|
| Yield (nominal)        | 21500 in <sup>2</sup> /lb |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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