

## DuPont Teijin Films Mylar® MLB Polyester Film, 300 Gauge

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

### Material Notes:

**Product Description:** Mylar® MLB is an uncoated, transparent, polyester film designed for use as a component of a lamination structure and may be suitable for use in medical applications. Mylar® MLB is commercially available in nominal 48 and 300 gauge. Mylar® MLB is available with corona treatment on one or both sides. These products are known as Mylar® MLBT and MLBT2 respectively and are not offered in the 300 gauge range.

**General Product Info:** Mylar® MLB polyester film frequently is selected as a component of a laminated structure because of its ability to contribute great strength, high temperature resistance and flavor/odor barrier. Its sparkling clarity and relative insensitivity to heat and humidity make it an ideal print carrier and outer ply of many laminated food packaging structures. Retention of properties over a temperature range from -100°F to 300°F permits uses requiring freezer storage temperatures followed by heating for warming, cooking or ovenable applications. The chemical resistance and barrier to acids, weak bases, greases and oils, detergents and other active ingredients make Mylar® MLB useful in containing many "hard-to-hold" food or non-food products. Mylar® MLB is not degraded by standard sterilization procedures involving steam retorts, gamma or cobalt radiation, ethylene oxide gas exposure or hydrogen peroxide immersion.

**Typical Applications:** A basic lamination would combine plain or printed Mylar® MLB with a heat sealable ply consisting of LDPE, LLDPE, EVA, ionomer, acid copolymer, PVC or other materials using adhesive or extrusion laminating techniques. Such structures might be suitable for heat sealed pouches for frozen foods, heat-in applications, packages not requiring high oxygen barrier, some condiments and some medical device applications. If greater gas barrier is required, a layer of foil, PVdC or EVOH may be inserted between the Mylar® MLB and the sealant layer, or barrier adhesives or sealant layers may be utilized. Typical applications might include processed meats, condiments, nuts, cheese, sauces and dry mixes.

**Approvals:** FDA Food Contact Status - All gauges of Mylar® LB comply with the Food and Drug Administration regulation 21 CFR 177.1630 -- Polyethylene Terephthalate 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® LB can be used to contain foods during oven cooking or oven baking at temperatures above 250°F. Drug Master File - This product is listed in our Drug Master File. Information provided by DuPont.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Teijin-Films-Mylar-MLB-Polyester-Film-300-Gauge.php](http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-MLB-Polyester-Film-300-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 Tensile Strength at Break, MD | 159 MPa | 23000 psi | ASTM D882A |
| Film Tensile Strength at Break, TD | 159 MPa | 23000 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 | 121 °C      | 250 °F          |                        |

| Thermal Properties | Metric   | English  | Comments     |
|--------------------|--|--|--------------|
| Shrinkage, MD      | @Temperature 190 °C,<br>Time 300 sec           | @Temperature 374 °F,<br>Time 0.0833 hour           | Unrestrained |
| Shrinkage, TD      | 0.50 %<br>@Temperature 190 °C,<br>Time 300 sec | 0.50 %<br>@Temperature 374 °F,<br>Time 0.0833 hour | Unrestrained |

| Optical Properties    | Metric      | English     | Comments                              |
|-----------------------|-------------|-------------|---------------------------------------|
| Refractive Index      | 1.64 - 1.67 | 1.64 - 1.67 | typical of Mylar®                     |
| Haze                  | 10.5 %      | 10.5 %      | ASTM D1003                            |
| Transmission, Visible | 90 %        | 90 %        | transparent; thickness not quantified |

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