



## Polyester Film or Mylar® Film Properties

Polyester Film is ideally suited for a wide range of uses such as packaging, printing, die-cutting, electronics, protective overlay, barrier protection, apparel and other industrial applications. Because of Mylar Film or Polyester Film inherent physical properties, it's your best choice for a high performance plastic film/sheet.

| <b>Physical Properties</b> |                      |                     |                      |
|----------------------------|----------------------|---------------------|----------------------|
| <b>Properties</b>          | <b>Typical Value</b> | <b>Units</b>        | <b>Test Method</b>   |
| Tensile Strength (MD)      | 28,000               | psi                 | ASTM-D882            |
| Tensile Strength (TD)      | 34,000               | psi                 | ASTM-D882            |
| Strength Elongation MD     | 15,000               | psi                 | ASTM-D882            |
| Strength F-5 TD            | 14,000               | psi                 | ASTM-D882            |
| Modulus MD                 | 710,000              | psi                 | ASTM-D882            |
| Modulus TD                 | 740,000              | psi                 | ASTM-D882            |
| Elongation MD              | 115                  | %                   | ASTM-D882            |
| Elongation TD              | 92                   | %                   | ASTM-D882            |
| Surface Roughness          | 38                   | nm                  | Optical Profilometer |
| Density                    | 1.39                 | g/cc                | ASTM-D1505           |
| Viscosity                  | 0.56                 | dL/g                | ASTM-D4603           |
| Yield                      | 21,000               | in <sup>2</sup> /lb | n/a                  |

| <b>Electrical Properties</b> |                    |                      |              |                    |
|------------------------------|--------------------|----------------------|--------------|--------------------|
| <b>Properties</b>            |                    | <b>Typical Value</b> | <b>Units</b> | <b>Test Method</b> |
| Dielectric Strength          | AC, 20° C, .00092" | 7,000                | volts/mil    | ASTM-D149-64       |
| Dielectric Constant          | 25° C, 1kHz        | 3.2                  | n/a          | ASTM-D150-81       |
| Dissipation Factor           | 25° C, 1kHz        | 0.005                | n/a          | ASTM-D150-65       |
| Volume Resistivity           | 25° C              | 1.00E+19             | ohm-cm       | ASTM-D257-78       |
| Corona Threshold             |                    | V-AC                 | V-AC         | ASTM-D2275-80      |

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Product Data

## Polyester Film or Mylar® Film Properties

| Thermal Properties    |                        |           |                            |
|-----------------------|------------------------|-----------|----------------------------|
| Properties            | Typical Value          | Units     | Test Method                |
| Melting Point         | 254                    | ° C       | n/a                        |
| Dimensional Stability | n/a                    | n/a       | n/a                        |
| at 105° C MD          | 0.6                    | %         | n/a                        |
| at 105° C TD          | 0.3                    | %         | n/a                        |
| at 150° C MD          | 1.8                    | %         | n/a                        |
| at 150° C TD          | 1.0                    | %         | n/a                        |
| Specific Heat         | 0.28                   | cal/g/° C | n/a                        |
| Thermal Expansion     | 1.7 x 10 <sup>-5</sup> | in/in/° C | ASTM-D696                  |
| UL94 Flame Class      | 94VTM-2                | n/a       | Slow to self extinguishing |

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Mylar® is a registered trademark of Dupont Teijin Films.

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