

## DuPont Teijin Films Mylar® M577 Polyester Film, 48 Gauge

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

### Material Notes:

Mylar® Type M577 is a tough, transparent film. A rough surface provides ease of handling, good adhesion, and processability. General Product Info: Mylar® Type M577 film has balanced tensile properties and excellent resistance to moisture and most chemicals. It can withstand temperature extremes from -94 to 302° F. Because it contains no plasticizers, it does not become brittle with age under normal conditions. Typical Applications: Mylar® Type M577 film is used almost exclusively in specialty (DC) capacitors. Information provided by DuPont.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Teijin-Films-Mylar-M577-Polyester-Film-48-Gauge.php](http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-M577-Polyester-Film-48-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	70 %	70 %	ASTM D882A
Film Tensile Strength at Break, MD	152 MPa	22000 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	150 °C	302 °F	
Maximum Service Temperature, Inert	-70.0 °C	-94.0 °F	
Shrinkage, MD	2.0 % @Temperature 150 °C, Time 1800 sec	2.0 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	1.0 % @Temperature 150 °C, Time 1800 sec	1.0 % @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®
Haze	4.0 %	4.0 %	

Transmission Visible Optical Properties	90 % Metric	90 % English	transparent; thickness not quantified Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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