

DuPont Teijin Films Mylar® MO Polyester Film, 500 Gauge

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

Material Notes:

Product Description: Mylar® MO polyester film has excellent electrical properties. This film offer exceptional cut-through resistance, low shrinkage, low moisture absorption, and high thermal durability. Mylar® MO film is used as insulation in systems that have been given Class B ratings by Underwriters Laboratories (UL). It offers product uniformity that enhances processing on automatic slot and wedge insertion equipment. The inherit mechanical durability of Mylar® Type MO film and its good dielectric and thermal durability characteristics give this film multiple advantages in motors and generators. **Typical Applications:** Mylar® MO film is being widely used for electrical insulation in slot liners, wedges, and phase insulation for motors and generators. This film is also frequently used in hermetic motor/compressor sealed units, fractional horse power motors, diaphragms, and industrial laminations. **Approvals:** UL 94 VTM-2 - for 500 gauge (0.13 mm only) Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-MO-Polyester-Film-500-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.3923 g/cc	0.050300 lb/in³	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	140 %	140 %	ASTM D882A
Film Elongation at Break, TD	115 %	115 %	ASTM D882A
Film Tensile Strength at Break, MD	186 MPa	27000 psi	ASTM D882A
Film Tensile Strength at Break, TD	207 MPa	30000 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	1.1 % @Temperature 150 °C, Time 1800 sec	1.1 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	0.70 % @Temperature 150 °C, Time 1800 sec	0.70 % @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®

Optical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Strength	106 kV/mm	2700 kV/in	1/4" electrode 500 V/sec 25°C in air; ASTM D149
Dielectric Breakdown	13500 V	13500 V	1/4" electrode 500 V/sec 25°C in air; ASTM D149

Descriptive Properties	Value	Comments
Yield (nominal)	4000 in ² /lb	

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