

DuPont Teijin Films Mylar® MO21 Polyester Film, 1000 Gauge

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

Material Notes:

Product Description: Mylar® type MO21 films are strong, heavy gauge films that have excellent electrical properties. These films offer exceptional cut-through resistance, low shrinkage, low moisture absorption, and high thermal durability. Mylar® type MO21 films are used as insulation in systems that have been given Class B ratings by Underwriters Laboratories (UL). They also offer product uniformity that enhances processing on automatic slot and wedge insertion equipment. The inherent mechanical durability of Mylar® type MO21 films and their good dielectric and thermal durability characteristics endow these films with multiple advantages in motors and generators. **Typical Applications:** Mylar® type MO21 films are being widely used for electrical insulation in slot liners, wedges and phase insulation for motors and generators. Mylar® type MO21 films are also frequently used in hermetic motor/compressor sealed units, fractional horse power motors, diaphragms, and industrial laminations. **Approvals:** UL 94 VTM-2 - for 92-1400 gauge (0.023-0.35mm). UL Recognition - for 92-500 gauge (0.023-0.35 mm) HWI=5, HAI=4, CTI=1; for 700-1400 gauge (0.18-0.35mm) HWI=4, HAI=0, CTI=1 Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-MO21-Polyester-Film-1000-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.3925 g/cc	0.050307 lb/in ³	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	150 %	150 %	ASTM D882A
Film Elongation at Break, TD	140 %	140 %	ASTM D882A
Film Tensile Strength at Break, MD	186 MPa	27000 psi	ASTM D882A
Film Tensile Strength at Break, TD	200 MPa	29000 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	1.5 % @Temperature 150 °C, Time 1800 sec	1.5 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	1.1 % @Temperature 150 °C, Time 1800 sec	1.1 % @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 Density	42	42	

Electrical Properties	Metric	English	Comments
Dielectric Strength	74.8 kV/mm	1900 kV/in	1/4" electrode 500 V/sec 25°C in air; ASTM D149
Dielectric Breakdown	19000 V	19000 V	1/4" electrode 500 V/sec 25°C in air; ASTM D149
Comparative Tracking Index	400 - 600 V	400 - 600 V	
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	

Descriptive Properties	Value	Comments
Yield (nominal)	2000 in ² /lb	

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