

DuPont Teijin Films Mylar® WC11/WC22 Polyester Film, 142 Gauge

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

Material Notes:

Mylar® type WC11 films are general-purpose electrical grade films, similar to Mylar® EL. These clear to hazy films are tough and durable as a core wrap. They offer good dielectric and good handling characteristics. Mylar® type WC11 is a single layer of Mylar® WC base corrugated in the length direction. Mylar® type WC11G is a single layer of Mylar® WC base corrugated and also embossed with flat bands at 1/4" intervals in the transverse direction. Mylar® type WC22 is a dual layer of Mylar® WC base corrugated in the length direction. These modifications improve mechanical protection and serve as a heat barrier during extrusion coating of conductors. Mylar® type WC11 films combine the tensile strength, dimensional stability, and dielectric strength needed for wire and cable applications. Typical Applications: Mylar® Type WC11 films possess the characteristics required for wire and cable used in telecommunications and power transmission fields. Approvals: UL 94 VTM-2 - for 142 - 300 gauge (0.036 - 0.076 mm) Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-WC11WC22-Polyester-Film-142-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	Typical Mylar®; ASTM D1505

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	125 %	125 %	ASTM D882A
Film Elongation at Break, TD	100 %	100 %	ASTM D882A
Film Tensile Strength at Break, MD	193 MPa	28000 psi	ASTM D882A
Film Tensile Strength at Break, TD	234 MPa	34000 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	1.0 % @Temperature 150 °C, Time 1800 sec	1.0 % @Temperature 302 °F, Time 0.500 hour	Unrestrained

Optical Properties	Metric	English	Comments
Haze	18 %	18 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Dielectric Strength	152.5 kV/mm	3873 kV/in	1/4" electrode 500 V/sec 25°C in air; ASTM D149
Dielectric Breakdown	5500 V	5500 V	1/4" electrode 500 V/sec 25°C in air; ASTM D149

Descriptive Properties	Value	Comments
Yield (nominal)	1400 in ² /lb	

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