

DuPont Teijin Films Melinex® SWC Polyester Film, 300 Gauge

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

Material Notes:

A narrow width film with consistently good handling properties; transparent in thin gauges, slightly hazy in thick gauges, ideally suited for wire and cable wrapping and insulation. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Melinex-SWC-Polyester-Film-300-Gauge.php

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	103 MPa	15000 psi	ASTM D882A
Film Tensile Strength at Yield, TD	103 MPa	15000 psi	ASTM D882A
Film Elongation at Break, MD	150 %	150 %	ASTM D882A
Film Elongation at Break, TD	120 %	120 %	ASTM D882A
Coefficient of Friction, Dynamic	0.40	0.40	A-B; ASTM D1894
Film Tensile Strength at Break, MD	193 MPa	28000 psi	ASTM D882A
Film Tensile Strength at Break, TD	221 MPa	32000 psi	ASTM D882A

Thermal Properties	Metric	English	Comments
Shrinkage, MD	3.0 % @Temperature 190 °C, Time 300 sec	3.0 % @Temperature 374 °F, Time 0.0833 hour	Unrestrained
Shrinkage, TD	1.0 % @Temperature 190 °C, Time 300 sec	1.0 % @Temperature 374 °F, Time 0.0833 hour	Unrestrained

Optical Properties	Metric	English	Comments
Transmission, Visible	87.2 %	87.2 %	TLT; ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm @Temperature 25.0 °C	1.00e+17 ohm-cm @Temperature 77.0 °F	100 V DC 50% RH 1000 sec electrification time; ASTM D257
Surface Resistivity per Square	1.00e+15 ohm @Temperature 25.0 °C	1.00e+15 ohm @Temperature 77.0 °F	500 V DC @ 50% RH; ASTM D257
	157 kV/mm	4000 kV/in	1/4" electrode 500 V/sec 25°C in air;

Dielectric Strength Electrical Properties	Metric	English	ASTM D149 Comments
Dielectric Breakdown	12000 V	12000 V	1/4" electrode 500 V/sec 25°C in air; ASTM D149
Dissipation Factor	0.0030	0.0030	ASTM D150
	@Frequency 100 Hz, Temperature 25.0 °C	@Frequency 100 Hz, Temperature 77.0 °F	
	0.0050	0.0050	ASTM D150
	@Frequency 1000 Hz, Temperature 25.0 °C	@Frequency 1000 Hz, Temperature 77.0 °F	

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