

DuPont Teijin Films Melinex® ST580 Polyester Film, 200 Gauge

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

Material Notes:

Melinex® ST580 is a clear, heat stabilized polyester film that is primed on one surface for enhanced adhesion to UV curable inks and coatings. Typical applications include flexible electronics, touch screens, displays, circuitry, and other industrial uses where high light transmission and excellent thermal stability are required. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Melinex-ST580-Polyester-Film-200-Gauge.php

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	150 %	150 %	ASTM D882A
Film Elongation at Break, TD	100 %	100 %	ASTM D882A
Coefficient of Friction, Static	0.40	0.40	A-B; ASTM D1894
Film Tensile Strength at Break, MD	179 MPa	26000 psi	ASTM D882A
Film Tensile Strength at Break, TD	200 MPa	29000 psi	ASTM D882A

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 50.0 °C	@Temperature 68.0 - 122 °F	
Melting Point	260 °C	500 °F	
Shrinkage, MD	1.0 %	1.0 %	Unrestrained
	@Temperature 150 °C, Time 1800 sec	@Temperature 302 °F, Time 0.500 hour	
Shrinkage, TD	0.00 %	0.00 %	Unrestrained
	@Temperature 150 °C, Time 1800 sec	@Temperature 302 °F, Time 0.500 hour	

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	TLT; ASTM D1003

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.9	2.9	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	Metric	English	Comments
Dielectric Breakdown	10000 V	10000 V	ASTM D149

Descriptive Properties	Value	Comments
Coefficient of Hygroscopic Expansion	0.000008 IN/IN/% RH	40% - 80% RH
Yield (nominal)	10070 in ² /lb	

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