

DuPont Teijin Films Teonex® Q72 Polyester Film, 14 Gauge

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

Material Notes:

Teonex® Q72 is biaxially oriented, slightly hazy polyethylene naphthalate (PEN) film. This ultra thin film which was developed for capacitor applications. It is commercially available in nominal 14 gauge (3.5 micron). Approvals: UL Component Registration (RTI = 180/160°C) - Relative Thermal Index (RTI) = 180°C (Elect), 160°C (Mech) Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Teonex-Q72-Polyester-Film-14-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	74 %	74 %	ASTM D882-67 (Modified to TDF)
Film Elongation at Break, TD	73 %	73 %	ASTM D882-67 (Modified to TDF)
Coefficient of Friction, Dynamic	0.20	0.20	ASTM D1894
Coefficient of Friction, Static	0.30	0.30	ASTM D1894
Film Tensile Strength at Break, MD	255 MPa	37000 psi	ASTM D882-67 (Modified to TDF)
Film Tensile Strength at Break, TD	276 MPa	40000 psi	ASTM D882-67 (Modified to TDF)

Thermal Properties	Metric	English	Comments
Melting Point	269 °C	516 °F	DSC
UL RTI, Electrical	160 °C	320 °F	
UL RTI, Mechanical without Impact	180 °C	356 °F	
Shrinkage, MD	1.0 % @Temperature 150 °C	1.0 % @Temperature 302 °F	JIS C-2318 (Modified to TDF)
Shrinkage, TD	1.3 % @Temperature 150 °C	1.3 % @Temperature 302 °F	JIS C-2318 (Modified to TDF)

Electrical Properties	Metric	English	Comments
Dielectric Strength	330 kV/mm	8380 kV/in	JIS C-2319

Descriptive Properties	Value	Comments
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Surface Roughness Descriptive Properties	0.074 Value	TDF Method (Inside) Comments
	1.3	TDF Method (Rm)

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