

DuPont Teijin Films Melinex® 238 Polyester Film

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

Material Notes:

Melinex® 238 is a translucent white polyester film used for electrical insulation. It has been specially developed for use as an electrical insulation material in rotating electrical machines. It is available in a range of thicknesses between 300 and 1400 gauge. This is a low oligomer film suitable for hermetic motor applications where oligomer extraction needs to be limited. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Melinex-238-Polyester-Film.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D1505
Water Absorption	0.55 %	0.55 %	ASTM D570-63
	@Temperature 23.0 °C, Time 605000 sec	@Temperature 73.4 °F, Time 168 hour	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	150 %	150 %	ASTM D882A
Film Elongation at Break, TD	130 %	130 %	ASTM D882A
Coefficient of Friction, Static	0.30	0.30	ASTM D1894
Film Tensile Strength at Break, MD	206 MPa	29900 psi	ASTM D882A
Film Tensile Strength at Break, TD	216 MPa	31300 psi	ASTM D882A

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	100 VDC
	@Temperature 25.0 °C, Time 100 sec	@Temperature 77.0 °F, Time 0.0278 hour	
Surface Resistivity per Square	>= 1.00e+13 ohm	>= 1.00e+13 ohm	500 V DC @ 54%; ASTM D257
Dielectric Strength	73.11 kV/mm	1857 kV/in	continuously increasing at 500 V/sec, 6.3 mm electrodes
	@Thickness 0.356 mm, Frequency 50.0 Hz	@Thickness 0.0140 in, Frequency 50.0 Hz	
	90.6 kV/mm	2300 kV/in	continuously increasing at 500 V/sec, 6.3 mm electrodes
	@Thickness 0.254 mm, Frequency 50.0 Hz	@Thickness 0.0100 in, Frequency 50.0 Hz	
	98.4 kV/mm	2500 kV/in	continuously increasing at 500 V/sec, 6.3 mm electrodes
	@Thickness 0.193 mm,	@Thickness 0.00760 in,	

Electrical Properties	Frequency 50.0 Hz Metric	Frequency 50.0 Hz English	Comments
	126 kV/mm @Thickness 0.127 mm, Frequency 50.0 Hz	3200 kV/in @Thickness 0.00500 in, Frequency 50.0 Hz	continuously increasing at 500 V/sec, 6.3 mm electrodes
Dielectric Breakdown	16000 V @Thickness 0.127 mm	16000 V @Thickness 0.00500 in	50 Hz continuously increasing at 500 V/sec, 6.3 mm electrodes
	19000 V @Thickness 0.193 mm	19000 V @Thickness 0.00760 in	50 Hz continuously increasing at 500 V/sec, 6.3 mm electrodes
	23000 V @Thickness 0.254 mm	23000 V @Thickness 0.0100 in	50 Hz continuously increasing at 500 V/sec, 6.3 mm electrodes
	26000 V @Thickness 0.356 mm	26000 V @Thickness 0.0140 in	50 Hz continuously increasing at 500 V/sec, 6.3 mm electrodes

Descriptive Properties	Value	Comments
Oligomer Extraction	0.006	24 hrs boiling Xylene

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