

MELINEX® 238

Melinex® 238 is a translucent white polyester film used for electrical insulation. It has a relative thermal index (RTI), assigned by Underwriters Labs, that is higher than most PET films.

APPROVALS:

UL Component Registration (RTI = 140/130°C) - for 300 gauge (0.075mm)
 - Relative Thermal Index (RTI) = 140°C (Elect), 125°C (Mech)

UL Component Registration (RTI = 180/160°C) - for 1000 gauge (0.25mm)
 - Relative Thermal Index (RTI) = 140°C (Elect), 130°C (Mech)

Typical Properties

Available Thickness [Gauge]

300; 500; 760; 900; 1000; 1200; 1400

Property	Thickness	Value	Units	Test
BARRIER				
Water Absorption	300 - 1400	0.55	%	ASTM D570-63 (1972), 1 week at 23°C
ELECTRICAL				
Breakdown Voltage	500	16	kV	50 Hz continuously increasing at 500 V/sec, 6.3 mm electrodes
Breakdown Voltage	760	19	kV	50 Hz continuously increasing at 500 V/sec, 6.3 mm electrodes
Breakdown Voltage	1000	23	kV	50 Hz continuously increasing at 500 V/sec, 6.3 mm electrodes
Breakdown Voltage	1400	26	kV	50 Hz continuously increasing at 500 V/sec, 6.3 mm electrodes
Surface Resistivity	300 - 1400	> 10 ¹³	Ohms/sq	ASTM D257, 500 V DC @ 20°C 54% RH
Volume Resistivity	300 - 1400	10 ¹⁵	log Ohm m	100 V D.C. @ 25°C for 100 sec
PHYSICAL				
C.O.F. (static)	300 - 1400	0.30		ASTM D1894
Density	300 - 1400	1.4	g/cc	ASTM D1505
Elongation at Break MD	300 - 1400	150	%	ASTM D882A
Elongation at Break TD	300 - 1400	130	%	ASTM D882A
Oligomer Extraction	300 - 1400	0.6	%	24 hours boiling Xylene
Tensile Strength MD	300 - 1400	29.9	kpsi	ASTM D882A
Tensile Strength TD	300 - 1400	31.3	kpsi	ASTM D882A
Yield (nominal)	500	4,000	in ² /lb	
Yield (nominal)	760	2,600	in ² /lb	
Yield (nominal)	1000	2,000	in ² /lb	
Yield (nominal)	1400	1,400	in ² /lb	

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