



PEI

PITTSBURGH ELECTRICAL INSULATION
MANUFACTURER | CONVERTER | DISTRIBUTOR

800 Martha Street, Munhall, PA 15120

TECHNICAL DATA

Polyimide Film

Properties and Application:

Polyimide film is a high temperature flexible insulation used in electric motor coil manufacturing. It has an ideal combination of electrical and temperature resistance without a high build up due to thickness. This material is well suited for Traction, DC and large AC motor coil production. It is recommended for class H motor applications.

This is also the base film used in the production of the adhesive tape products offered by PEI.

Property	UOM	Unit Value 1 mil and 2 mil
Tensile Strength at 70°F	PSI	24,650
Break Elongation	%	≥55
Shrink Rate 150°C/300°F	%	0.2
Shrink Rate 400°C/750°F	%	2
Dielectric Strength	volts / mill	1 mil ≥ 6,000; 2 mil ≥ 5,000
Volume Resistance 200 °C	Ωm	1.0×10^{10}
Surge Resistance 200 °C	Ω	1.0×10^{13}
Relative Dielectric Constant	n/a	3.5 +/- 0.4 @48Hz-62Hz
Dielectric Loss	n/a	$\leq 4.0 \times 10^{-3}$

***CAUTION:** The above values are typical and care should be taken not to take this data as a basis in constructing any specifications. All customers are responsible to ensure that this product will meet all application requirements before approving this for use.