

## Professional Plastics Kaptrex® Polyimide Film

Category : Polymer , Film , Thermoset , Polyimide, TS , Polyimide, Thermoset Film

### Material Notes:

Kaptrex polyimide film provides an excellent balance of electrical, mechanical, thermal, and chemical properties over a wide range of temperatures. Kaptrex film provides excellent electrical properties and resistance to high temperature and radiation. It is suitable for insulation of "H" class (180°C or 356°F) electrical machines and appliances under working temperature of 200°C(392°F).Availability: Thickness from .001" up to .005" Widths: Standard Rolls for 24.5" wide.Applications: Wire Wrap Insulation & Tapes, Flexible Printed Circuits, Motor Slot Liners, Pressure Sensitive Tapes, Aerospace Shims, Formed Coil Insulation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Professional-Plastics-Kaptrex-Polyimide-Film.php](http://www.lookpolymers.com/polymer_Professional-Plastics-Kaptrex-Polyimide-Film.php)

Physical Properties	Metric	English	Comments
Density	>= 1.40 g/cc	>= 0.0506 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	>= 25 %	>= 25 %	
Film Elongation at Break, TD	>= 20 %	>= 20 %	
Film Tensile Strength at Break, MD	>= 98.1 MPa	>= 14200 psi	
Film Tensile Strength at Break, TD	>= 98.1 MPa	>= 14200 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 °C	356 °F	insulation of "H" class
	200 °C	392 °F	electrical machines and appliances

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Surface Resistance	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
	@Temperature 200 °C	@Temperature 392 °F	
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	
Dielectric Constant	<= 4.0	<= 4.0	
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	>= 60.0 kV/mm	>= 1520 kV/in	50 Hz

Electrical Properties	100 kV/mm Metric	2540 kV/in English	50 Hz Comments
	>= 48.0 kV/mm	>= 1220 kV/in	50 Hz; Average is > 80 kV/mm
	@Temperature 200 °C	@Temperature 392 °F	
Dissipation Factor	<= 0.010	<= 0.010	
	@Frequency 50 Hz	@Frequency 50 Hz	

## Contact Songhan Plastic Technology Co.,Ltd.

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