

AUBURN PRODUCT NEWS

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PRELIMINARY DATA SHEET **K100** FILM-POLYIMIDE

CHR[®] K100 from Auburn is manufactured from polyimide film with high-temperature silicone adhesive applied to both sides. Polyimide films are employed because of their extreme heat resistance. Service temperatures range from -100°F to +500°F (-73°C to +260°C). These flame retardant films exhibit high tensile strength and conformability, good solvent resistance, excellent dielectric strength and good abrasion resistance. Polyimide tape applications include electrical insulation, capacitor, transformer, and coil wrapping, electronic assembly, and wave solder protection

Typical Properties

Product	K100
Backing Material	Film-Polyimide
Adhesive Type	Silicone
Total Thickness (in.)	.0045
Backing Thickness (in.)	.001
Adhesive Thickness (in.)	.0017/.0018
Adhesion to Steel (oz./in.)	20/20
Tensile Strength (lbs./in)	30
Elongation (% at break)	50
Dielectric Strength (Volts)	7500
Direct Electrolytic Corr.	1.0
Operating Temperature (°F)	-100° F – +500° F
Insulation Class (°C)	180
Color	Amber

All properties are typical values and should not be used for writing specifications.

Applications—K100 is constructed to fill the requirements of high performance thermoplastic polyimide backing materials along with the high temperature resistance of the silicone adhesive for a broad range of electronic assembly and electrical insulation applications.

Availability—K100 is offered in master log form 36 yards long x 23" wide. Rolls can be slit 1/4" wide to 23" wide. **K100** is available with or without a liner. For more technical data, samples, material recommendations or price quotations, please contact your Auburn Customer Service Representative.

Features/Benefits—K100 has excellent mechanical and electrical properties, plus excellent dielectric strength. K100 offers high temperature resistance and low moisture absorption. **K100** is used in high voltage insulation. The thermoset cycle is 1-4 hours at 400°F. The polyimide backing meets MIL-P46112B.

Potential applications:

- power supply insulation
- disc drive insulation
- foil laminating/shielding
- electrical insulation
- bus bar insulation
- TV monitor insulation
- computer insulation
- business equipment
- keyboard Insulation
- motor winding insulation