

AUBURN PRODUCT NEWS

Auburn Manufacturing Company

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PRELIMINARY DATA SHEET

K SERIES

FILM-POLYIMIDE 2 MIL

CHR® K109, K350 and 2345-2 from Auburn are manufactured from polyimide film with high-temperature adhesive. 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	K109	K350	2345-2
Backing Material	Film-Polyimide	Film-Polyimide	Film-Polyimide
Adhesive Type	Acrylic	Acrylic	Silicone
Total Thickness (in.)	.0035	.0035	.0035
Backing Thickness (in.)	.0020	.0020	.0020
Adhesive Thickness (in.)	.0015	.0015	.0015
Adhesion to Steel (oz./in.)	30	20	25
Tensile Strength (lbs./in)	50	50	50
Elongation (% at break)	75	75	75
Dielectric Strength (Volts)	10000	10000	10000
Direct Electrolytic Corr.	—	1.0	—
Operating Temperature (°F)	-20° F – +350° F	-100° F – +500° F	-100° F – +500° F
Insulation Class (°C)	155	180	—
Color	Amber	Amber	Amber

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

Applications--K109 and K350 are constructed to fill the requirements of high performance thermoplastic polyimide backing materials. **K109 and K350** were designed to fill the various needs of electrical insulation requirements. **2345-2** is chosen for gold finger protection during wave solder applications.

Features/Benefits--K109, K350 and 2345-2 have excellent mechanical and electrical properties, as well as high conformability. **K109, K350 and 2345-2** offer outstanding resistance to cut-through, and are impact and abrasion resistant. They also offer excellent dielectric strength, while burning of the adhesive forms a non-conductive ash. **K350 and 2345-2** meet the Underwriters Laboratories, Inc. Guide OAN22 and File E51201 and File

E566639 specifications respectively with a 180°C temperature rating, and they comply with UL510 for a flame retardant. Acrylic adhesive can be thermoset. The polyimide backing meets MIL-P-4611B.

Availability--K109 and K350 are available in master log form 36 yards long x 23" wide. **2345-2** is available in master roll form 36 yards long x 38" wide. All rolls can be slit ¼" wide to either 23" or 38" wide, depending on the product type. All are available with or without a liner. For more technical data, samples, recommendations or price quotations, please contact your Auburn Customer Service Representative.

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