

AUBURN PRODUCT NEWS

PRELIMINARY DATA SHEET

K SERIES FILM-POLYIMIDE 1 MIL

CHR[®] K102, K103, K250 and 2345-1 from Auburn are manufactured from polyimide film with high-temperature adhesive.

Typical Properties

Product	K102	K103	K250	2345-1
Backing Material	Film-Polyimide	Film-Polyimide	Film-Polyimide	Film-Polyimide
Adhesive Type	Acrylic	Acrylic	Silicone	Silicone
Total Thickness (in.)	.0025	.0025	.0025	.0025
Backing Thickness (in.)	.0010	.0010	.0010	.0100
Adhesive Thickness (in.)	.0015	.0015	.0015	.0015
Adhesion to Steel (oz./in.)	30	25	20	25
Tensile Strength (lbs./in)	30	30	30	30
Elongation (% at break)	50	50	50	50
Dielectric Strength (Volts)	7000	7000	6500	6500
Direct Electrolytic Corr.	1.0	1.0	1.0	-
Operating Temperature (°F)	-20° F – +350° F	-20° F – +350° F	-100° F – +500° F	-100° F – +500° F
Insulation Class (°C)	155	155	180	180
Color	Amber	Amber	Amber	Amber

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

Applications--K102, K103, and K250 are constructed to fill the requirements of high performance thermoplastic Polyimide backing materials. **K102** and **K103** were designed to fill the need of no-silicone adhesive gold finger connector wave solder protection. **K102** and **K103** work well for both solvent and water based fluxes. **K102, K103, and K250** fill the various needs in electronic assembly and electrical insulation applications. **2345-1** is often used for applications that require holding, insulating, or wrapping. **2345-1** is chosen for gold finger protection during wave solder applications.

Features/Benefits--K102, K103 and K250 have excellent mechanical and electrical properties, plus excellent dielectric strength. **K102** and **K103** offer high temperature resistance and a high

Conformability/resistance to solvents. **K102, K103** and **K250** have outstanding resistance to cut through, and is impact and abrasion resistant. Acrylic adhesive can be thermoset. The polyimide backing meets MIL-P-46112B. **2345-1** and **K250** meet Underwriters Laboratories, Inc. Guide File E66639 and File ES1201 respectively with a 180° C temperature rating, and they comply with UL510 for flame retardance. **2345-1** also meets the UL Guide OANZ2 specifications.

Availability--K102 and K103 are in master log form 36 yards long x 23" wide. **K250 and 2345-1** are in master roll form 36 yards long x 38" wide. Rolls can be slit 1/4" wide to 38". All tapes are available with or without a liner

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