

# K Series

## FILM-POLYIMIDE 1 MIL

Saint-Gobain Performance Plastics CHR® K102, K103, K250 and 2345-1 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	.0010
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 to 350	-20 to 350	-100 to 500	-100 to 500
Insulation Class (°C)	155	155	180	180
Color	Amber	Amber	Amber	Amber

Values shown are typical. Certified test reports for writing specifications are available.

**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 non-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 an 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 the Underwriters Laboratories, Inc. Guide File E66639 and File E51201 respectively with a 180°C temperature rating, and they comply with UL510 for flame retardance. 2345-1 also meets the UL Guide OAN22 specification.

**Availability**—K102 and K103 are in master log form 36 yards long x 23" wide. Rolls can be slit 1/4" wide to 23" wide. K250 and 2345-1 are in master roll form 36 yards long x 38" wide. Rolls can be slit 1/2" wide to 38" wide. All tapes are available with or without a liner.

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AFF-1087-PDF-0304-SGCS