

# CHR<sup>®</sup> K SERIES

## 1 Mil Polyimide Pressure Sensitive Adhesive Tape

**CHR** K102, K103, K250 and 2345-1 are manufactured from polyimide film with high-temperature adhesive.

### Features/Benefits

**CHR** K102, K103 and K250 have excellent mechanical and electrical properties, plus excellent dielectric strength. **CHR** K102 and K103 offer high temperature resistance and a high conformability/resistance to solvents. **CHR** K102, K103 and K250 have an outstanding resistance to cut through, and are impact and abrasion resistant. Acrylic adhesive can be thermoset. The polyimide backing meets MIL-P-46112B. **CHR** 2345-1 meets the Underwriters Laboratories, Inc. Guide File 66639 with a 180°C temperature rating and complies with UL 510 for flame retardance. **CHR** K250 and K103 meet Underwriters Laboratories, Inc. Guide File 66639 and comply with UL 510 for flame retardance. **CHR** K250 and K103 have a temperature rating of 180°C and 155°C respectively.

### Availability

**CHR** K102 and K103 are available in master log form 33 m × 965 mm (36 yd × 38 in) wide, K250 and 2345-1 are both available in 33 m × 991 mm (36 yd × 39 in) wide. Rolls can be slit as required from 12.7 mm (0.5 in) upwards. These tapes are usually supplied without a liner (i.e., self-wound).

### Applications

**CHR** K102, K103 and K250 are constructed to fill the requirements of high performance thermoplastic polyimide backing materials. **CHR** K102 and K103 were designed to fill the need of non-silicone adhesive gold finger connector wave solder protection. **CHR** K102 and K103 work well for both solvent and water based fluxes. **CHR** K102, K103 and K250 fill the various needs in electronic assembly and electrical insulation applications. **CHR** 2345-1 is often used for applications that require holding, insulating, or wrapping. **CHR** 2345-1 is chosen for gold finger protection during wave solder applications.



### CHR K Series Properties

Performance tests are run using standard test procedures.

The values presented are typical values and should not be used for specification purposes.

Product Number	K102	K103	K250	2345-1
Backing Material	Film-Polyimide	Film-Polyimide	Film-Polyimide	Film-Polyimide
Adhesive Type	Acrylic	Acrylic	Silicone	Silicone
Total Thickness mm (mil)	0.064 (2.5)	0.064 (2.5)	0.064 (2.5)	0.064 (2.5)
Backing Thickness mm (mil)	0.025 (1.0)	0.025 (1.0)	0.025 (1.0)	0.025 (1.0)
Adhesive Thickness mm (mil)	0.038 (1.5)	0.038 (1.5)	0.038 (1.5)	0.038 (1.5)
Adhesion to Steel N/cm (oz/in)	3.3 (30)	2.7 (25)	2.2 (20)	2.7 (25)
Tensile Strength (N/cm) (lb/in)	53 (30)	53 (30)	53 (30)	53 (30)
Elongation (% at break)	50	50	50	50
Dielectric Strength (volts)	7,000	7,000	6,500	6,500
Direct Electrolytic Corr.	1.0	1.0	1.0	-
Operating Temperature °C (°F)	-29 to +177 (-20 to +350)	-29 to +177 (-20 to +350)	-73 to +260 (-100 to +500)	-73 to +260 (-100 to +500)
Insulation Class (°C)	155	155	180	180
Colour	Amber	Amber	Amber	Amber



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