

# K Series

## FILM-POLYIMIDE .5 MIL

Saint-Gobain Performance Plastics CHR® K104 is manufactured from polyimide film with high-temperature silicone adhesive.

### Typical Properties

Product	K104
Backing Material	Film-Polyimide
Adhesive Type	Silicone
Total Thickness (in.)	.0015
Backing Thickness (in.)	.0005
Adhesive Thickness (in.)	.0010
Adhesion to Steel (oz./in.)	15
Tensile Strength (lbs./in.)	10
Elongation (% at break)	25
Dielectric Strength (volts)	4000
Direct Electrolytic Corr.	1.0
Operating Temperature (°F)	-100 to 500
Insulation Class (°C)	180
Color	Amber

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

**Applications**—K104 is constructed to fill the requirements of a high performance thermoplastic polyimide backing materials. K104 is designed to fill the various needs of electrical insulation requirements.

**Features/Benefits**—K104 has excellent mechanical and electrical properties as well as a high conformability. K104 offers outstanding resistance to cut-through, and is impact and abrasion resistant. They also offer excellent dielectric strength, while the burning of the adhesive forms a non-conductive ash. This material meets the Underwriters Laboratories, Inc. Guide OANZ2 and File E51201 specifications with a 180°C temperature rating, and it complies with

UL510 for a flame retardant. The polyimide backing meets MIL-P-46112B.

**Availability**—Factory stock for K104 is in master log form 36 yards long x 17" wide. Rolls can be slit 1/4" wide to 17" wide. Rolls can be slit 1/4" wide to 23" wide. K104 is available with or without a liner.

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AFF-1086-PDF-0304-SGCS