

K Series

FILM-POLYIMIDE 2 MIL

Saint-Gobain Performance Plastics CHR® K109, K350 and 2345-2 are manufactured from polyimide film with high-temperature adhesive.

Typical Properties

Product	K109	K350	2345-2
Backing Material	Film-Polyimide	Film-Polyimide	Film-Polyimide
Adhesive Type	Acrylic	Silicone	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 to 350	-100 to 500	-100 to 500
Insulation Class (°C)	155	180	—
Color	Amber	Amber	Amber

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

Applications—K109 and K350 are constructed to fill the requirements of a high performance thermoplastic polyimide backing materials. K109 and K350 are 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 a high conformability. K109, K350 and 2345-2 offer 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. K350 and 2345-2 meet the

Underwriters Laboratories, Inc. Guide OANZ2 and File E51201 and File E566639 specifications respectively with a 180°C temperature rating, and it complies with UL510 for a flame retardant. Acrylic adhesive can be thermoset. The polyimide backing meets MIL-P-46112B.

Availability—K109 and K350 are in master log form 36 yards long x 23" wide. Rolls can be slit 1/4" wide to 23" wide. 2345-2 is in master roll form 36 yards long x 38" wide. Rolls can be slit 1/2" wide to 38" wide. They are all available with or without a liner.

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Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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