

K Series

FILM-POLYIMIDE 1 MIL

Saint-Gobain Performance Plastics **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 (mm)	0.064	0.064	0.064	0.064
Backing Thickness (mm)	0.025	0.025	0.025	0.025
Adhesive Thickness (mm)	0.038	0.038	0.038	0.038
Adhesion to Steel (N/cm)	3.3	2.7	2.2	2.7
Tensile Strength (N/cm)	53	53	53	53
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 (°C)	-29 to +177	-29 to +177	-73 to +260	-73 to +260
Insulation Class (°C)	155	155	180	180
Colour	Amber	Amber	Amber	Amber

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 OANZ2 specification.

Availability—**K102** and **K103** are in master log form 33m x 584mm wide. Rolls can be slit 6.35mm to 584mm wide. **K250** and **2345-1** are in master roll form 33m x 965mm wide. Rolls can be slit 12.7mm to 965mm wide. All tapes are available with or without a liner.

Saint-Gobain Performance Plastics Sales and Distribution facilities are situated at the following locations:

Ireland

Tel. + 353 65 6820988
Fax. + 353 65 6820993
E-mail: aff.europe@saint-gobain.com

Germany

Tel. +49 221 9714080
Fax. +49 221 97140835
E-mail: aff.germany@saint-gobain.com

France

Tel. +33 4 68635353
Fax. +33 4 68632646
E-mail: aff.france@saint-gobain.com

UK

Tel. +44 1706 746900
Fax. +44 1706 746991
E-mail: aff.uk@saint-gobain.com

Italy

Tel. +39 041 5350203
Fax. +39 041 2668908
E-mail: aff.italy@saint-gobain.com

Spain

Tel. +34 96 1536170
Fax. +34 96 1520757
E-mail: aff.spain@saint-gobain.com

www.plastics.saint-gobain.com

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