



## Tgard™ K52 Series Insulator Material

Tgard™ K52 is a high thermal and dielectric performance insulator pad consisting of a ceramic filled phase change compound coated on MT Kapton film.

Tgard™ K52 phase change coating all but eliminates contact thermal resistance. The phase change coating melts at 52°C and replaces all contact areas that contain air. Tgard™ K52-1 is ideal for applications requiring the best thermal performing insulator material.

Tgard™ K52-2 has the best balance of thermal, dielectric and cut through performance. Tgard™ K52-3 is a 3 mil MT Kapton film that provides the best crush and cut and tear resistance available with thermal properties that are still in the high performance category.

Item #	Composite Thickness	MT Kapton® Thickness	Color	Dielectric with Stand Voltage	Thermal Impedance
K52-1	2 mil 0.051 mm	1 mil 0.025 mm	Light Amber	3000 VAC	0.13 °C-in <sup>2</sup> /W
K52-2	3 mil 0.076 mm	2 mil 0.051 mm	Light Amber	6000 VAC	0.23 °C-in <sup>2</sup> /W
K52-3	4 mil 0.102 mm	3 mil 0.076 mm	Medium Amber	7500 VAC	0.30 °C-in <sup>2</sup> /W