

Item # Tgard 5000 /, Tgard™ 5000 Series Insulator Material



Tgard™ 5000 Series Insulator Material Thermally Conductive Electrically Insulative Material

Tgard™ 5000 is an excellent dielectric material with good thermal performance consisting of a polyimide film coated with a ceramic filled high temperature silicone rubber.
 Tgard™ 5000 is ideal for applications that require a delta temperature across the interface of 2.0°C/watt or higher on a TO-220 clip mounted at 50 psi pressure.
 Tgard™ 5000 has high dielectric strength for the AC side of a switching mode power supply.
 Tgard™ 5000 is tough resulting in an exceptional cut-through resistant material.

SPECIFICATIONS

Thickness	5 mils 0.127 mm
Hardness	65 Shore A
Test Method - Hardness	ASTM D2240
Tensile Strength	6.0k psi 40.0 MPa
Test Method - Tensile Strength	ASTM D412
Elongation, MD	45.0 %
Test Method - Elongation	ASTM D412
UL Flammability Rating	UL 94 V0
Operating Temperature	-76 to 180 °C -60 to 356 °F
Color	Tan
Dielectric with Stand Voltage	4500 VAC
Test Method - Dielectric with Stand Voltage	ASTM D149
Dielectric Breakdown Voltage	>6000 VAC
Test Method - Dielectric Breakdown Voltage	ASTM D149
Volume Resistivity	>10 ¹² ohm-cm

Test Method - Volume Resistivity	ASTM D257
Dielectric Constant at 1 MHz	3.40
Test Method - Dielectric Constant	ASTM D257
Pressure Sensitive Adhesive	Single side adhesive