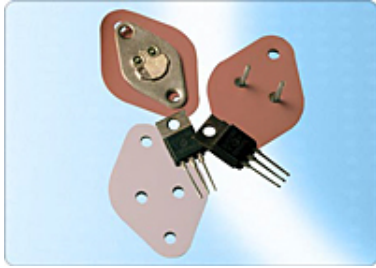


Item # Tgard 500 /, Tgard™ 500 Series Insulator Material



Tgard™ 500 Series Insulator Material

Thicker Thermal Insulator Pad Prevents Electrical Shorts in Automotive Electronics Applications

Tgard™ 500 is a medium thermal performance insulator pad consisting of a ceramic filled high temperature silicone rubber coated on electrical grade fiberglass.

Tgard™ 500 is designed for applications that require additional thickness to prevent electrical shorts from stamped aluminum heatsinks used in switching mode power supplies (SMPS) and debris from aluminum castings used in automotive motor controls.

Tgard™ 500 is used in applications that require an interface of 2.5°C/watt or higher on a TO-220 mounted at 50 psi pressure.

SPECIFICATIONS

Thickness	0.009 inches 0.230 mm
Hardness	85 Shore A
Test Method - Hardness	ASTM D2240
Tensile Strength	1.3k psi 9.0 MPa
Test Method - Tensile Strength	ASTM D412
Elongation at 45° to Warp/Fill	0.20 %
Elongation along Width or Length	5 %
Test Method - Elongation	ASTM D412
Mechanical RTI Temperature Rating	302 °F 150 °C
Test Method - Mechanical RTI Temperature Rating	UL 746D
Color	Dark Pink
UL Flammability Rating	UL 94 V0
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	3.30
Test Method - Dielectric Constant	ASTM D257
Electrical RTI Temperature Rating	302 °F 150 °C
Test Method - Electrical RTI Temperature Rating	UL 746D
Roll Size	18" x 164' 457 mm x 50 m
Pressure Sensitive Adhesive	Single side adhesive