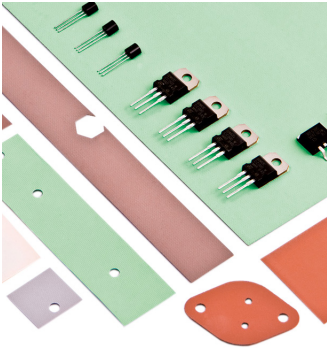


TG500 Series Insulator Material



Description

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

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

The thicker thermal insulator pad prevents electrical shorts in automotive electronics applications. The product 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 (0.23mm)
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	0.2%
Elongation along Width or Length	5%
Test Method - Elongation	ASTM D412
Mechanical RTI Temperature Rating	150°C (302°F)
Test Method - Mechanical RTI Temperature Rating	UL 746D
Colour	Dark Pink
UL Flammability Rating	UL 94 V0
Dielectric with Stand Voltage	4,500V AC
Test Method - Dielectric with Stand Voltage	ASTM D149
Dielectric Breakdown Voltage	>6,000V AC
Test Method - Dielectric Breakdown Voltage	ASTM D149
Thermal Conductivity	1.6 w/mk

TG500 Series Insulator Material

Volume Resistivity	>10 ¹² ohm-cm
Test Method - Volume Resistivity	ASTM D257
Dielectric Constant at 1MHz	3.30
Test Method - Dielectric Constant	ASTM D257
Electrical RTI Temperature Rating	150°C (302°F)
Test Method - Electrical RTI Temperature Rating	UL 746D
Roll Size	18" x 164' (457mm x 50m)
Pressure Sensitive Adhesive	Single side adhesive

Part Number Table

Description	Part Number
TG500 Series Insulator Material	MK3306/S

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.