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More Innovation, Less Heat.

T-Global Technology

UL File Number: E314841



TG-A4500F

Fiberglass Mesh Series Thermal Pad

REACH Compliant | RoHS Compliant | UL Compliant

Features

- High thermal conductivity
- Fiberglass on one side
- Non-deforming
- Electrical insulation

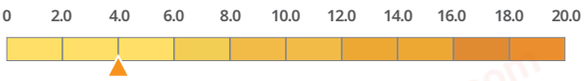
Application:

Suitable for voltage-resistant products

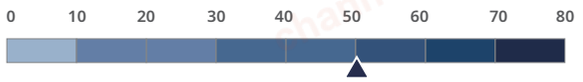
Electronic components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

Properties

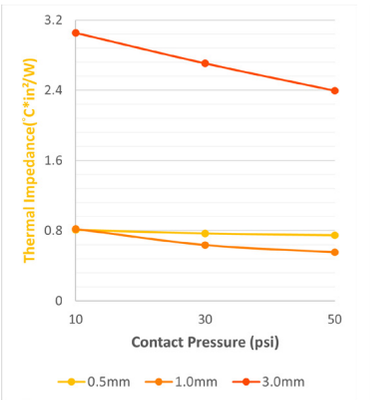
Thermal Conductivity : 4.0 W/m•K

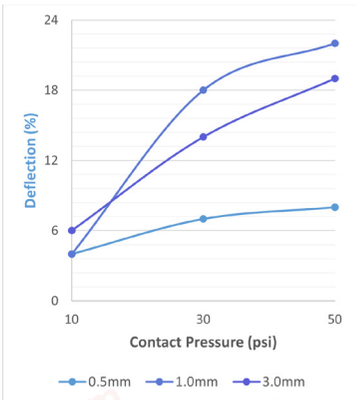


Hardness : 50 (Shore OO)



Contact Pressure, Thermal Impedance, and Deflection





Properties	Unit	TG-A4500F	Tolerance	Test Method
Thermal Conductivity	W/m•K	4.0	±10%	ASTM D5470 Modified
Thickness	mm	0.5~8.0	-	ASTM D374
	inch	0.0197~0.3149	-	ASTM D374
Color	-	Purple	-	Colorimeter CIE 1976
Reinforcement Carrier	-	Fiberglass mesh	-	-
Flame Rating	-	V-0	-	UL 94
Dielectric Breakdown Voltage	KV/mm	≥11	-	ASTM D149
Weight Loss	%	<1	-	ASTM E595 Modified
Density	g/cm^3	3.1	±5%	ASTM D792
Operating Temperature	° C	-50~+180	-	-
Volume Resistivity	Ohm-m	1×10^{13}	-	ASTM D257
Elongation	%	50	-	ASTM D412
Standard Format	-	Sheet	-	-
Hardness (Silicone Side)	Shore OO	50	±15	ASTM D2240

※For thicknesses less than 1.0mm, hardness will be adjusted to 50-75 Shore OO to facilitate effective removal of liner during production
※Different tolerances according to the selected thickness
※Die-cut for different shapes

NOTICE: The information contained herein is to the best of our knowledge true and accurate. Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. All specifications are subject to change without notice. The protective film and release paper does not affect the function of the product. If there is no special requirement, the default depends on T-Global. Since the varied conditions of potential use are beyond our control, all recommendations or suggestions are presented without guarantee or responsibility on our part and users should make their own test to determine the suitability of our products in any specific situation. This product is sold without warranty either expressed or implied, of fitness for a particular purpose or otherwise, except that this product shall be of standard quality.
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