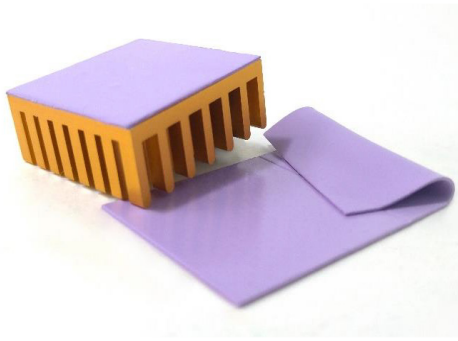




TG-A4500

Ultra Soft Thermal Pad

Version 4.030620



Ultra Soft Thermal Pad

TG-A4500 is one of our high performance silicone gap pads with a thermal conductivity of 4.5 W/mk. TG-A4500 is highly conformable and can be supplied in either standard sheets or custom die-cut parts. TG-A4500 is formulated to wet most surfaces and provide low thermal impedance for the most demanding of applications.

Features

High thermal conductivity
High compressibility and compliancy
Naturally tacky

Applications

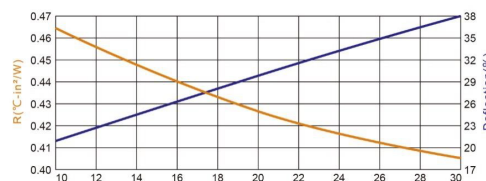
Best for high power applications
Electronic components: IC, CPU, MOS, LED, Motherboard, Power supply, Heat Sink
LCD TV, Notebook, PC, Telecom Device, Wireless Hub, DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	TG-A4500	Unit	Tolerance	Test Method
Colour	Purple	-	-	Visual
Thickness (Available thickness range)	0.5 - 8.0	mm	-	ASTM D374
	0.0197 - 0.315	inch	-	ASTM D374
Thermal Conductivity	4.5	W/mK	±0.45	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	6	kV/mm	-	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	3.1	g/cm ³	-	ASTM D792
Working Temperature	-50 to +150	°C	-	-
Volume Resistance	1x10 ¹³	Ohm-m	-	ASTM D257
Elongation	50	%	-	ASTM D412
Standard Shape	Sheets	-	-	-
Hardness	50	Shore 00	±15	ASTM D2240

Thermal Impedance vs Pressure vs Deflection



Pressure (psi)	R (°C-in ² /W)	Deflection (%)
10	0.465	21
30	0.405	38

Testing sample thickness: 1.0mm - In "Thermal resistance vs. Pressure vs Deflection" chart, TG-A4500 provides low thermal impedance. The pressure gets higher, the thermal impedance gets lower, and deflection percentage gets higher. TG-A4500 provides good compliance and softness.

* Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

NOTICE: The information contained herein is to the best of our knowledge true and accurate. However, 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, and except to the extent otherwise stated in T-Global Technology Europe and North America's invoice, quotation, or order acknowledgment. We disclaim any and all liabilities incurred in connection with the use of information contained herein, or otherwise. All risks of such are assumed by the user. Furthermore, nothing contained herein shall be construed as a recommendation to use any process or to manufacture or to use any product in conflict with existing or future patents covering any product or material or its use.

T-Global Technology Limited
1 & 2 Cosford Business Park, Central Park,
Lutterworth, Leicestershire LE17 4QU U.K.

Tel: +44 (0)1455 553 510
Email: sales@tglobaltechnology.com
Web: www.tglobaltechnology.com
VAT #: GB 116 662 714