

TG-A1780

Thermal Pad

REACH Compliant | RoHS Compliant | UL Comparable

Features

- High thermal conductivity
- Low thermal impedance
- Good electrical insulation

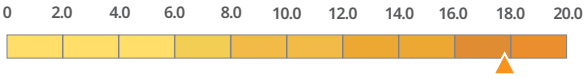
Applications

Best for high power applications

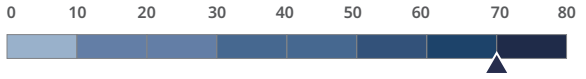
Electronic Components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

Properties

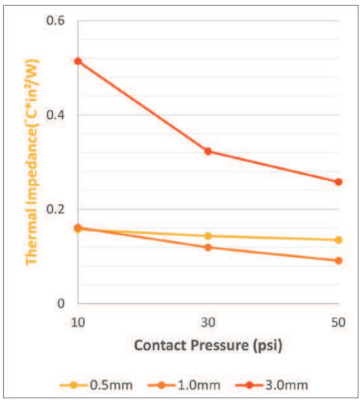
Thermal Conductivity : 17.8 W/m·K

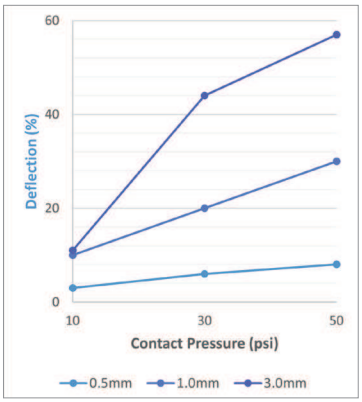


Hardness : 70 (Shore OO)



Contact Pressure, Thermal Impedance, and Deflection





Properties	Unit	TG-A1780	Tolerance	Test Method
Thermal Conductivity	W/m·K	17.8	±10%	ASTM D5470 Modified
Thickness	mm	0.5~4.0	-	ASTM D374
	inch	0.0197~0.1575	-	ASTM D374
Color	-	Light Gray	-	Colorimeter CIE 1976
Flame Rating	-	V-0	-	UL 94
Dielectric Breakdown Voltage	kV/mm	≥8	-	ASTM D149
Weight Loss	%	<1	-	ASTM E595
Collected Volatile Condensable Materials	%	≤0.1	-	ASTM E595
Density	g/cm^3	3.5	±5%	ASTM D792
Operating Temperature	° C	-50~+180	-	-
Volume Resistivity	Ohm·m	$\geq 10^{14}$	-	ASTM D257
Tensile Strength @T3.0mm	kgf/cm^2	39	-	ASTM D412
Elongation	%	34.6	-	ASTM D412
Standard Format	-	Sheet	-	-
Hardness	Shore OO	70	±10	ASTM D2240

※For thicknesses less than 1.0mm, hardness will be adjusted to Shore OO 70-80 to facilitate effective removal of liner during production.
※Different tolerances according to the selected thickness.
※Die-cut for different shapes.

T-Global USA LLC

2880 Zanker Road, Suite 103, San Jose, CA 95134, USA

T +1(669)345-0002 **E** usa@tglobal-usa.com **W** www.tglobal-usa.com

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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 do 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 with out 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'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.