



### **Features**

- · Ultra thin and low mass
- · Applicable for unventilated design
- · No dusting issue

# **TG-P10090** Graphene

## **Application:**

Suitable for products requiring flat temperature

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**

Properties	Unit	TG-P10090	Tolerance	Test Method
Thermal Conductivity (XY axis)	W/m•K	1500~1800	-	AC Calorimeter
Thermal Conductivity (Z axis)	W/m•K	12	-	Laser Flash
Total Thickness	μm	90	-	Meter
Copper Foil Thickness	μm	75	-	Meter
Coating Thickness	μm	15	-	Meter
Vertical Resistivity (XY axis)	Ohm-inch <sup>2</sup>	2.57	-	QJ1523-1988
Parallel Resistivity (Z axis)	Ohm-inch <sup>2</sup>	0.66	-	QJ1523-1988
Cross-cut Tape Test	-	4B	-	ASTM D3359B
Pencil Hardness Test	-	2H	-	ASTM D3363
Solvent Resistance (Alcohol)	-	Pass(5 times)	-	ASTM D5402
Rubber Abrasive Test	-	Pass(150 times)	-	ASTM D7835
High Temperature & Humidity Test @85° C/85%RH	-	Pass(500 hrs)	-	IEC-60068-2-78
Thermal Shock Test @-20~+80° C	-	Pass(500 cycles)	-	IEC-60068-2-14
Temperature Range	°C	-20~+120	-	ISO 16750-4

\*Die-cut for different shapes

## T-Global Techonology Co., Ltd.

Version19 20240306



No.33, Ln.50, Daren Rd., Taoyuan Dist., Taoyuan City 330058, Taiwan

**T** +886-3-361-8899 **E** service@tglobalcorp.com W www.tglobalcorp.com

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 on therwise, 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. In order to provide customers with more efficient thermal interface materials, T-Global Technology has updated the manufacturing process for some products and integrated UL certification. From today, we will replace some of previous generation products with TG-A series part numbers.

will replace some of previous generation products with TG-A series part numbers.