



TG-P10090 Graphene

RoHS Compliant

Features

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

Applications

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	-	Handheld Thickness Gauge
Copper Foil Thickness	µm	75	-	Handheld Thickness Gauge
Coating Thickness	µm	15	-	Handheld Thickness Gauge
Vertical Resistivity (XY axis)	Ohm-inch ²	2.57	-	QJ1523-1988
Parallel Resistivity (Z axis)	Ohm-inch ²	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
Working Temperature	° C	-20~+120	-	ISO 16750-4

※Die-cut for different shapes

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