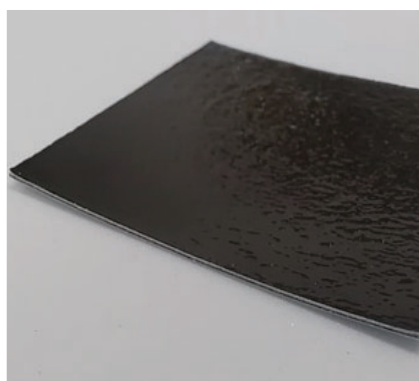


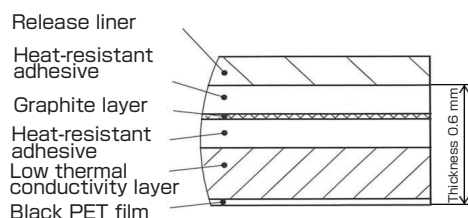
GRAPHITE HYBRID SHEET / GHS-25



Stacked layers work together to prevent hot spots and returned heat to the device.

Features

- Ideal for attaching to the inside of plastic case of electronic devices.
- Low thermal conductivity layer reduces speed of heat transfer to graphite layer, prevents hot spots from occurring, and impedes heat reflection back to the heat source.
- One side heat-resistant adhesive tape.
- Addition of low heat reflection layer (Black PET film + Low thermal conductivity later) helps to reduce the temperature of heat source.

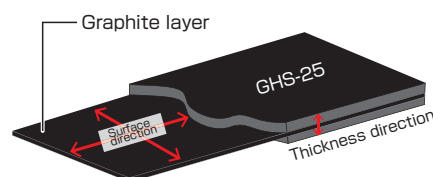


(The values are measured values, but not the product specifications or guaranteed.)

Test type	Unit	Standard	GHS-25
Thickness	mm	—	0.6
Thermal Conductivity (Thickness direction**): whole product	W/m-K	Hot-wire method (Company standard)	3.0±1.0
Thermal Conductivity (Surface direction**): graphite layer only	W/m-K	Laser flash method (ASTM E1461-13)	≥1,400
Operating Temperature	°C	—	-40~150

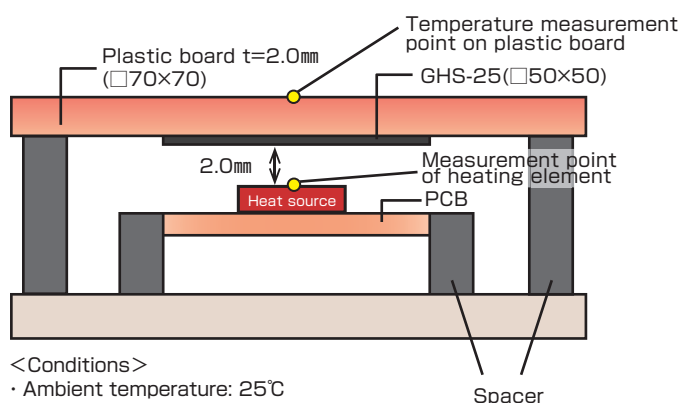
* 1) Please refer to Figure 1 on the right for the thermal conductivity measurement direction

Figure 1: Thermal Conductivity Measurement Direction



Performance comparison

Thermal analysis model



<Conditions>

- Ambient temperature: 25°C
- No forced convection
- Air buoyancy considered
- Analysis software: Femtet

Unit: °C

	Heating element temperature	Plastic board temperature
No countermeasures	90.5	48.2
Graphite sheet only	103.7(+13.2)	39.6(-8.6)
GHS-25	83.6(-6.9)	35.9(-12.3)

Application Example

