

## Technical Data Sheet

### Product Description

#### Graphite Copper Foil

Thermally Conductive Graphite Copper is a thermal interface material with super high conductivity generated from a carbon/copper film structure. Nano-copper/carbon foil thermally conductive tape uses copper foil as a carrier and is coated with a thermally conductive acrylic adhesive. It provides an excellent heat conduction path between the heating element and the heat sink.



#### Material Properties

- High thermal conductivity
- Excellent Shielding properties
- Lightweight/ thin
- Good shielding effectiveness
- Excellent heat-transfer path between the heat-generator and heat sink

#### Applications

- ✓ Automotive electronics
- ✓ Computers and servers
- ✓ Communication equipment
- ✓ Consumer electronics
- ✓ Aerospace and medical devices
- ✓ LED lighting equipment
- ✓ Displays



## EVSU005-1/2 Graphene Copper Tape

| Item                            | Test                | Test method              |
|---------------------------------|---------------------|--------------------------|
| Copper foil thickness (mm)      | 0.035±0.005         | ASTM D374                |
| Coating thickness (mm)          | 0.003±0.001         | ASTM D374                |
| Total thickness (mm)            | 0.05±0.005          | ASTM D374                |
| Proportion (g/cm <sup>3</sup> ) | 7.70±0.50           | ASTM D792                |
| Temperature range (°C)          | '-40-200            | ***                      |
| Thermal Conductivity (W/m-K)    | 400                 | ASTM D5470               |
| Resistance (Ω.cm)               | ≤0.02               | ASTM D257                |
| Adhesion (kgf/inch)             | >0.6                | GB/T 2792-1998           |
| Printability                    | Nano carbon coating | ***                      |
| Width (mm)                      | 380mm;500mm;600mm   | Base of copper substrate |
| Length (M)                      | 50M/ volume         | ***                      |
| RoHS                            | PASS                | IEC 62321                |
| Halogen                         | PASS                | EN14582                  |
| REACH                           | PASS                | EN14372                  |

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**Note:** The information provided herein is accurate at time of publication. It is the responsibility of the end-user to confirm compliance to their application. All test data is typical. Therefore, these recommendations and data are for reference only and not as a product warranty.