

# Technical Data Sheet

## Graphene Ink I-EP33

**I-EP33** is designed for flexible spray-printed circuit and electronic device applications. The sprayed layer shows excellent electrical conductivity and hardness.

### Physical Property

- Appearance : Black ink
- Resin : Epoxy
- Solid Content : 47±1 wt% to resin
- Pencil Hardness : ≥ B
- Sheet Resistivity : ≤ 20 Ω/□/mil
- Viscosity<sup>+</sup> : 16±4 cps
- Shelf Life : Sealed for 3 months @ 25 °C

<sup>+</sup> Viscosity: Hydramotion VL7-100B-d21

### Recommended Operation Condition

- Settling of solid may occur and compositions should be thoroughly mixed prior to use.
- Mix carefully in case of bubbling during operation.
- I-EP33\_A: Main ink; I-EP33\_B: Hardener
- Optimum A/B ratio: 54/1 to 54/2 within pot life of 24 hours depending on hardness requirement.
- Recommended coating method : Spray coating
- Curing condition : 30~40 minutes @ 130 °C

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Please note that partial of the analysis data are also conveniently available online at [www.graphene.com.tw](http://www.graphene.com.tw)

- Clean up : Ketone
- Please wear protective cloths as well as installing full ventilation during the operation.

### Storage

- Graphene Ink should be stored in a clean and stable environment at room temperature with the lids tightly sealed.
- Storage in high temperature ( $>30^{\circ}\text{C}$ ) or freezers ( $<0^{\circ}\text{C}$ ) is NOT recommended.

### Safety Issue

- Products are intended for use in an industrial environment by trained personnel. Please follow proper health/safety processes regarding storage, handling and processing of the products. For Safety and Handling information pertaining to this product, refer to Safety Data Sheet (SDS).

### Package

- The standard package is 1KG including the A agent and B agent packaged separately. It could be customized according to customers' requirement.



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