



MIMOS Graphene Anti-Static Ink (Mi-GraphInkAntiStatic)

A graphene-based anti-static ink that could be used as a static-shield protective coating in packing materials for electrical and electronics (E&E) industry.

Overview

MIMOS Mi-GraphInkAntiStatic is a proprietary graphene-based anti-static ink technology developed as a protective coating agent on a targeted substrate and is used primarily for the reduction of a static-electrical charge in the electrical and electronics (E&E) industry. It can also be customised to tailor for the needs of other industries such as to act as an anti-corrosive coating, enhancement of mechanical properties, for aesthetic purposes and other types of applications.

Features

Mi-GraphInkAntiStatic comprises the following features:

- **Anti-Static**
Graphene-based liquid with conductivity at the anti-static range.
- **High Transparency**
Graphene-based anti-static liquid with transparency of up to 90%.
- **Inkjet-Printable**
Proven jettability on inkjet printing process (based on Dimatix DMP series of cartridge) with viscosity of below 4cP.
- **Nano-Sized**
Nano-sized anti-static elements below 30nm for ease of jetting and reduction in print head clogging.
- **Customisable**
Can be modified, tuned and tailored to the required needs and specifications.

Technology Benefits

The main impacts of Mi-GraphInkAntiStatic are:

- **Low Cost**
Carbon-based materials usage ensures lower cost of the developed products. High jettability of the ink ensures that less volume is required to coat the targeted substrate.
- **Environmental Sustainability**
Graphene is a carbon-based nanomaterial which ensures environmental sustainability for bulk usage.
- **Multipurpose**
The graphene-based anti-static liquid can be modified and tuned to the required specifications and requirements to cater for various types of applications and industrial needs.

Technology Summary

Mi-GraphInkAntiStatic

Proprietary graphene-based anti-static ink technology as a protective coating agents on a targeted substrate for various types of applications and industrial needs.

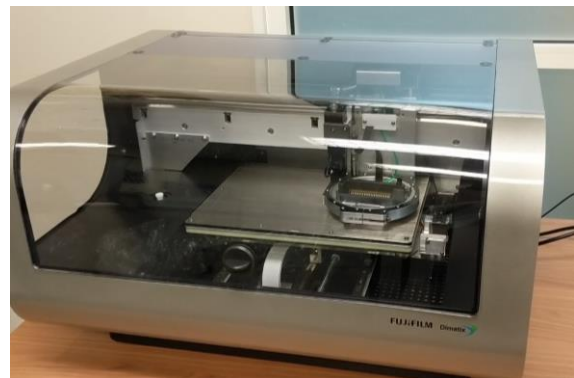
Industries: E&E industries, Automotive & Transportation, Medical, SMEs, Government

Features

- Anti-static
- High transparency
- Inkjet-printable
- Nano-sized
- Customisable

Technology Benefits

- Low cost
- Environmental sustainability
- Multipurpose



MIMOS conductive ink printer



Mi-GraphInkAntiStatic of different grades

Specifications

Mi-GraphInkAntiStatic	
Description	Base Specification
Form	Liquid
Particle size	<30nm
Viscosity	≈4 cP
Sheet resistance	1k to 1MΩ/□
Transparency	up to 90%
Jettability	Inkjet-printable (proven on Dimatix DMP series)

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