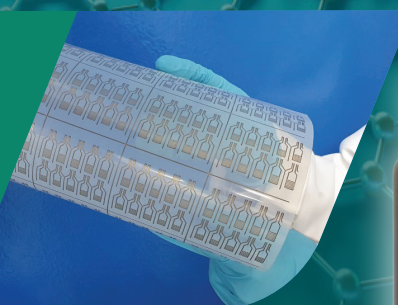


Mi-UV GraphASC

UV-curable Graphene Anti-static Ink

A graphene-based anti-static ink with fast-curing, scratch and chemical-resistant properties as a substitute for solvent-based formulation. It is used in advanced ESD materials in electronics packaging and supports polyethylene, PET, PI (Kapton) and polyester.



Mi-UV GraphASC

Technology Overview

Mi-UV GraphASC is a high-performance, cost-effective anti-static coating specially developed for use on flexible surfaces. Powered by advanced two-dimensional alkoxy-silane-functionalised graphene nanoplatelets (GNPs), it effectively reduces or eliminates electrostatic charge build-up.

Designed for easy topical application, Mi-UV GraphASC delivers excellent ESD (Electrostatic Discharge) protection while maintaining high optical clarity—featuring low haze, high transmittance, and strong adhesion to flexible polymer substrates. Ideal for industries where transparency, flexibility, and anti-static performance are critical.

Technology Benefits

- Cost-Efficient Innovation**
 Mi-UV GraphASC is developed using a simple one-pot synthesis method with affordable raw materials—no complex procedures or expensive ingredients. The graphene is modified without harmful chemicals, enabling a fast, efficient, and budget-friendly anti-static coating process.
- Environmentally Friendly**
 Built on a green synthesis approach, Mi-UV GraphASC uses a water-based formulation, making it a safer, more sustainable alternative for coating applications. This eco-conscious method significantly reduces environmental impact in production.
- Enabling Technology**
 Mi-UV GraphASC delivers a flexible, transparent, and low-haze anti-static coating in a thin layer. Designed to dissipate static charges, it protects sensitive

electronic components while supporting both electronic packaging and non-electronic applications. Its simplicity, affordability, and performance make it an enabling solution across various industries.

Key Features

- Water-Based & Clean Formulation**
 Formulated with functionalised graphene nanoplatelets (GNPs) that are fully water-miscible, Mi-UV GraphASC offers an eco-friendly alternative to solvent-based coatings—completely free from sulphuric ion contaminants.
- Crystal Clear Transparency with Low Haze**
 Engineered for clarity, the coating delivers high optical transparency and minimal haze, verified by ASTM D1003-61 standards. Ideal for ESD packaging, it keeps the protected product clearly visible without compromising protection.
- Strong Adhesion & Long-Lasting Stability**
 Designed for durability, the anti-static coating ensures excellent surface adhesion and performance stability. Tested against ASTM F2252M and ASTM D3359 standards, it provides consistent, reliable ESD protection.

Applications

- Electronics & Semiconductor Industry
- Packaging & Logistics
- Medical & Laboratory Equipment
- Automotive Industry

Certified by:

