

Graphene - D

Conductive Grade



Highly conductive, easily dispersible and lateral dimension of below 1 micron make it ideal for wide range of applications to enhance thermal and electrical conductivity such as anti-static coating, Conductive Epoxy

THICK: 5-10 nm



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PRODUCT FEATURES

ADG-D

Purity: > 99%

Advantages

- ▶ By incorporating graphene into polymers or coatings, it imparts antistatic properties to the material, preventing the build-up and discharge of static electricity.
- ▶ It's excellent electrical conductivity makes it suitable for imparting electrostatic dissipative properties to epoxy floor coatings.
- ▶ Electrostatic dissipative floors help to prevent the build-up and discharge of static electricity, which can be critical in environments where sensitive electronic equipment or flammable materials are present.
- ▶ Due to it's high electrical conductivity it is used to protect electromagnetic interference (EMI) shielding that make it highly effective in attenuating and blocking electromagnetic waves
- ▶ Its high electrical conductivity and charge transport properties enable efficient extraction and transport of charge carriers, enhancing the overall photovoltaic conversion efficiency of solar cells.

Applications

Conductive Epoxy

EMI Shielding

Anti-Static Coating

Solar

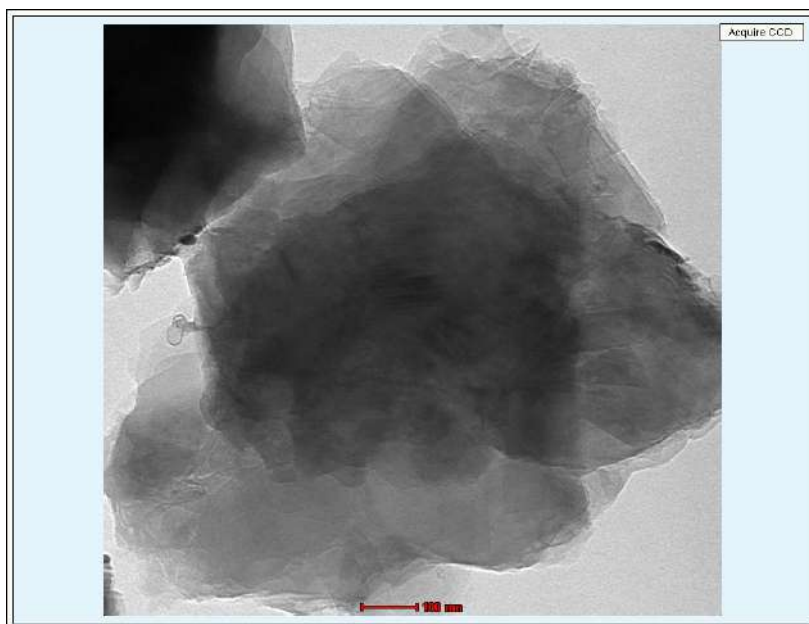
Printed Electronics

Sensors

TECHNICAL DATA SHEET

SPECIFICATION

ADG-D	DESCRIPTION
PURITY	99%
PARTICLE SIZE	D50: < 1-2 μ
THICKNESS	5-10 nm
BULK DENSITY	0.166 g/cm ³
PHYSICAL FORM	POWDER
COLOUR	GREYISH BLACK
SURFACE AREA	~ 110 m ² /g
CAS NO.	7782-42- 5



DISCLAIMER

The values are typical and are for very general guidance and must not be used as a basis for specifications as concrete. Information contained in this publication, and otherwise supplied to users, is based on our general experience and is given in good faith, but we are unable to accept responsibility in respect of factors which are outside our knowledge or control. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. Please refer to MSDS of respective product for safe use.