

Graphene -X

Composite Grade



Used as a reinforcing filler in composite materials due to its exceptional mechanical, electrical, thermal and barrier properties. It enhances the performance of composite at very low cost on matrix

THICK: ~5-10 nm



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PRODUCT FEATURES

ADG-X

Purity: > 99%

Advantages

- ▶ When incorporated into a composite material, graphene sheets or nanoplatelets can significantly increase its tensile strength, toughness, and stiffness, leading to enhanced structural performance.
- ▶ Its high electrical conductivity allows it to act as a conductive filler in composites, improving their electrical properties.
- ▶ It can facilitate the efficient transfer of heat, resulting in enhanced thermal conductivity and heat dissipation capabilities.
- ▶ When incorporated into composites, it can enhance their barrier properties, preventing the diffusion or permeation of substances.
- ▶ It can be integrated into composites using various manufacturing techniques, such as solution mixing, roll mixing and melt blending

Applications

Thermoplastics

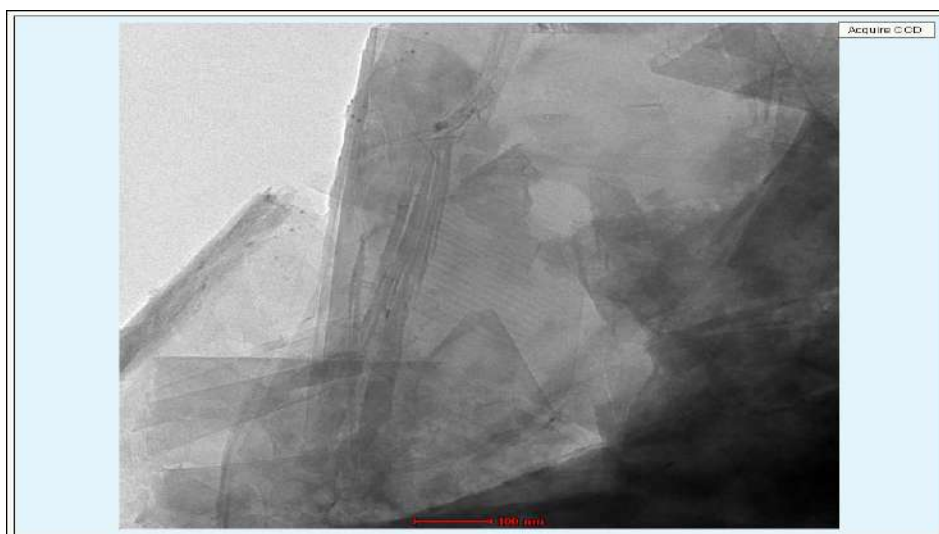
Thermosets

Elastomers

TECHNICAL DATA SHEET

SPECIFICATION

ADG-X	DESCRIPTION
PURITY	>99%
PARTICLE SIZE	D50: <20 μ
THICKNESS	5-10 nm
BULK DENSITY	~0.12 g/cm ³
PHYSICAL FORM	POWDER
COLOUR	BLACK
SURFACE AREA	~ 200 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.