

Technical Datashheet

ARGO GRAPHENE SOLUTIONS CORP.

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CSE: **ARGO** | OTCQB: **ARLSF** | FSE: **94Y**

Technical Datasheet

PRODUCT DESCRIPTION

High-surface-area few-layer graphene synthesized via upcycling of carbonaceous feedstocks. Designed for applications in construction, composites, and energy storage.

PRODUCT SPECIFICATIONS

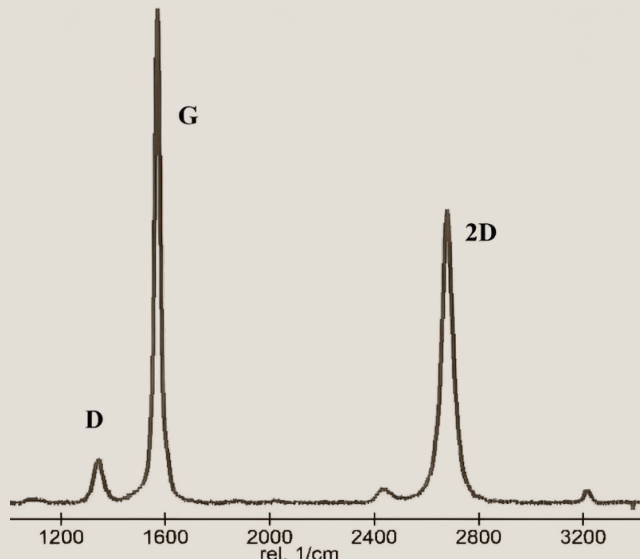
Property	Typical Value	Test Method
Form	Fluffy Dry Powder	Visual
Appearance	Black	Visual
Electrical Conductivity	1 - 3 × 10 ³ S/m	Compression Dependent

TECHNICAL SPECIFICATIONS

Property	Typical Value	Test Method
Number of Layers	~1–5 layers	Raman
Carbon Purity (%)	>99% Predominantly sp ² Carbon	Chemical Analysis XPS
Particle Size (µm)	~1–5 µm lateral sheet size	TEM
Crystallinity	Turbostratic	Raman/XRD

CHARACTERIZATION DATA

Raman Spectroscopy



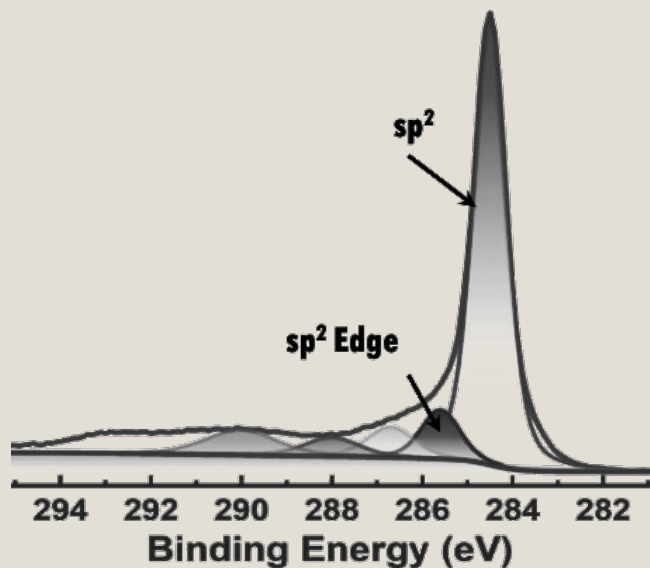
Spectral Interpretation:

- Strong G peak ($\sim 1580\text{ cm}^{-1}$) confirms dominant sp^2 carbon structure.
- Well-defined 2D peak ($\sim 2700\text{ cm}^{-1}$) confirms layered structure.
- I_{2D}/I_G ratio (~ 0.58) is consistent with few-layer graphene.
- Low I_D/I_G ratio (~ 0.09) indicates minimal structural defects and high crystallinity.
- Raman features in the $1800\text{--}2200\text{ cm}^{-1}$ region and the unsplit 2D band are consistent with turbostratic stacking and rotationally disordered stacking in few-layer graphene.

Overall Raman analysis confirms a high-quality low-defect few-layer graphene.

CHARACTERIZATION DATA

X-ray Photoelectron Spectroscopy (XPS)



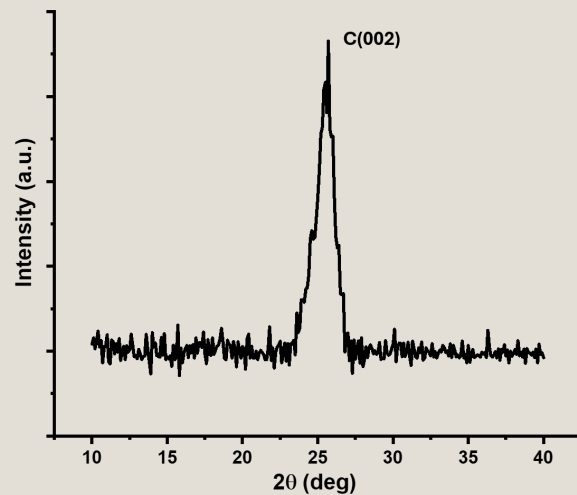
Spectral Interpretation:

- Dominant peak at ~284.5 eV corresponds to sp²-bonded C–C, confirming a graphitic carbon framework.
- Minor contribution from sp² edge carbon, indicating exposed graphene edge sites.
- Small peaks assigned to C–O–C (~286 eV) and C–OH (~287 eV) suggest limited oxygen functionalization.
- Weak higher-binding-energy component indicates minimal sp³ carbon content.

XPS analysis confirms predominantly sp²-bonded carbon with minimal oxygen functionalization, consistent with high-purity few-layer graphene.

CHARACTERIZATION DATA

X-Ray Diffraction (XRD)



Spectral Interpretation:

- A dominant (002) peak XRD confirms minimal crystalline impurities.

Disclaimer: The technical information and data provided in this document are based on tests and sources that Argo believes to be reliable; however, accuracy and completeness are not guaranteed. Due to the variety of factors that can influence product use and performance, the user is solely responsible for evaluating the suitability of Argo products for their intended application and determining appropriate methods of use.