

PureWave Graphene (GNP) Specifications

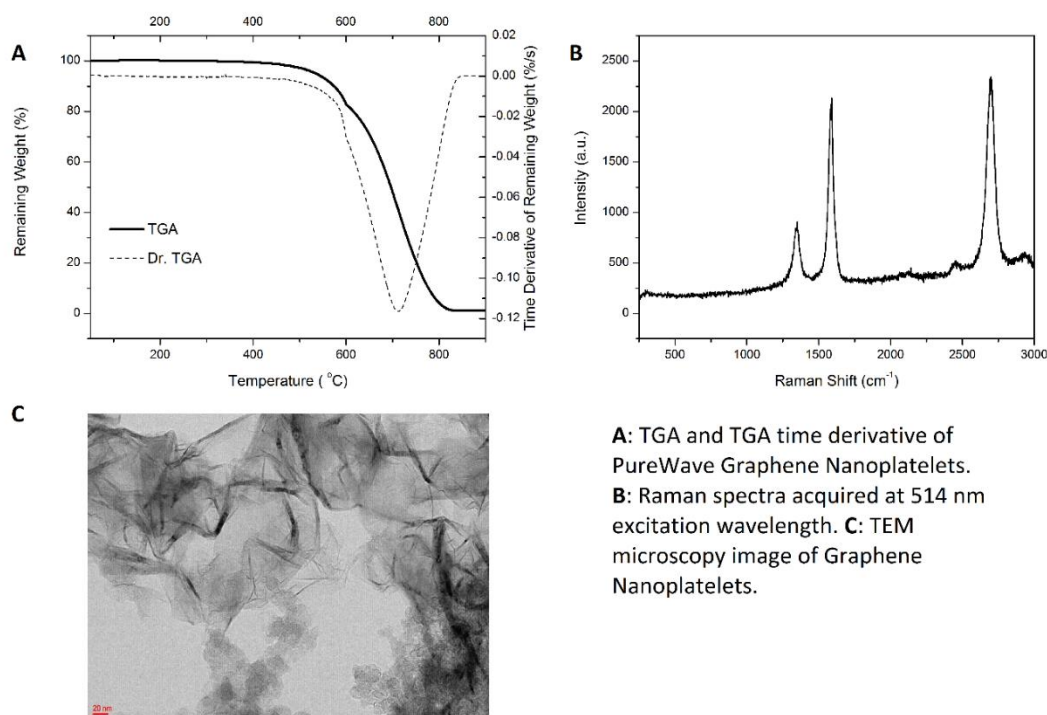
Description: Our **PureWave™ Graphene Nanoplatelets (GNP)** material is composed of thin, highly dispersible graphene nanoplatelets with very low oxygen content. The turbostratic and wavy morphology of the material leads to an unequalled ability to be dispersed in a variety of solvents and resins. Furthermore, the **unique plasma process** used to grow our PureWave Graphene Nanoplatelets is highly scalable and thus can be produced affordably. Our unique and patent-protected growth process based on plasma enables us to produce this material without the use of catalyst, allowing for high purity, negligible polyaromatic hydrocarbon contaminant, and at kilogram scale; enabling industrial-level commercial graphene applications such as energy storage, biomedical applications, electronics, sensors, and novel material synthesis.

Product Name: PureWave Graphene Nanoplatelets (GNP)

Grade: GNP-GD4

Production process: Plasma Synthesis

Specifications:



A: TGA and TGA time derivative of PureWave Graphene Nanoplatelets.
B: Raman spectra acquired at 514 nm excitation wavelength. **C:** TEM microscopy image of Graphene Nanoplatelets.

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Specification	Instrument	Value range
G/D ratio	Raman at 514 nm	> 3.5
2D/G ratio	Raman at 514 nm	> 0.8
Specific surface Area (m ² /g)	B.E.T. Method	> 300
Total metal impurity content (ppm)	ICP-MS	< 400
Morphology	TEM Microscopy	Crumpled platelets
Average number of layers	B.E.T. Method / TEM Microscopy	5 - 7
Average lateral flake size (nm)	TEM Microscopy	25 - 200
Oxygen content (%)	XPS	> 2
Average flake thickness (nm)	TEM Microscopy	2.4
Carbon content (%)	Thermogravimetry	> 98

Safety Data: A Safety Data Sheet (SDS) is available on the web on our product page for PureWave Graphene Nanoplatelets. Please visit: www.raymor/products

Prices:

SKU#	Product	Quantity (g)	Powder (USD)	Dispersion (USD)
1710	PureWave Graphene Nanoplatelets (GNP)	2	\$100	\$160
1710	PureWave Graphene Nanoplatelets (GNP)	10	\$250	\$400
1710	PureWave Graphene Nanoplatelets (GNP)	100	\$1,500	\$2,400
1710	PureWave Graphene Nanoplatelets (GNP)	1,000	\$3,600	\$5,600

Volume discounts available for large quantities. Please contact us for more information.

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