



Graphene Platform Incorporation

April 11th, 2013

Graphene Platform launches the sale of the world's largest^{*1} single-layer, single-crystal graphene samples

Graphene Platform Incorporated (Head Office: The Woodlands, TX; CEO: J. Patrick Franz), a company focused on fabricating and selling various samples of new graphene materials into worldwide markets, announced today that it will launch the sale of the world's largest single-layer, single-crystal graphene samples – as large as 10x10mm – starting April 11th, 2013.

Compared to normal single-layer polycrystalline graphene currently produced by the company, its world's largest single-layer, single-crystal graphene has a crystalline structure of carbon atoms with perfect six-membered rings and shows the ideal nature of graphene, such as high electron mobility as well as excellent optical, mechanical and thermal properties.

In polycrystalline graphene that is grown on copper foil, tiny crystal grains composed of hexagonal carbon rings – so-called six-membered rings – converge into a mosaic-like polycrystalline structure, and imperfect crystalline structures including seven- or five-membered rings can occur at grain boundaries. On the other hand, the single-crystal graphene samples that the company is now providing are composed of perfect six-membered rings without any defects.

Therefore, Graphene Platform's single-layer, single-crystal graphene is a useful substrate for developing future devices such as power semiconductors and terahertz oscillators.

Single-layer and single-crystal graphene on Silicon Carbide (SiC)

- Epitaxial graphene growth on SiC substrate.
- The world's largest 10x10mm single-layer and single-crystal graphene (grown on the whole surface of a substrate of the same size).
- Substrate best suited to develop power semiconductors and THz oscillation devices.

Release Date

April 11th ,2013

Price^{※2}

See www.grapheneplatform.com or send mail to info@grapheneplatform.com

Delivery time

Samples are typically delivered in 2~3 weeks after ordering; however, lead times are subject to change due to stock status or other reasons. Please inquire for current delivery lead times.

Contact

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※1 As of March 2013 (Graphene Platform data)

※2 Prices may change without prior notice. Please check our website before purchasing.