Mob.: 8452810712
8800903073

ULTRANANOTECH PVT. LTD.
Materials Beyond Imagination

B-205, Prime Blue Forest, Rajapallya, Hoodi, Bangalore - 560048
Web. : www.ultrananotec.com | E-mail : info@ultrananotec.com, sales@ultrananotec.com

Two layers of CVD graphene film on SiO_2/Si wafer

Properties of Graphene Film:

Two layers of single layer CVD graphene films are transferred onto 285 nm p-doped SiO_2/Si wafer

Size: 1cmx1cm; 4 pack

Each graphene film is transferred consecutively onto the wafer

The thickness and quality of our graphene film is controlled by Raman Spectroscopy

The graphene coverage of this product is about 98%

The graphene film is continuous, with minor holes and organic residues

Each graphene film is predominantly single layer (more than 95%) with occasional small multilayer islands (less than 5% bi-layers)

Each graphene film is polycrystalline, i.e. it consists of grains with different crystallographic orientation

There is no A-B stacking order. The graphene films are randomly oriented with respect to each other

Sheet Resistance: 215-700 Ω/square

Properties of Silicon/Silicon Dioxide Wafers:

- **Oxide Thickness:** 285 nm
- **Color:** Violet
- **Wafer thickness:** 525 micron
- **Resistivity:** 0.001-0.005 ohm-cm
- **Type/Dopant:** P/Boron
- **Orientation:** <100>
- **Front Surface:** Polished
- **Back Surface:** Etched

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Applications:

Graphene electronics and transistors
Conductive coatings
Aerospace industry applications
Support for metallic catalysts
Microactuators
MEMS and NEMS
Chemical and biosensors
Multifunctional materials based on graphene
Graphene Research

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