Graphene on Quartz glass





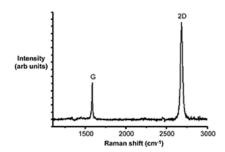






Product Size	Up to 65x65mm ²
Film morphology	Continuous Monolayer (>95%)
Sheet Resistance	Av. < 250~400Ω/sq
Mobility	>3500cm ² /Vs
Transmittance	>97%
Substrate	SiO ₂ (300nm)/Si wafer
Domain Size	3-12 <i>µ</i> m

Raman Spectrum



Raman Spectrum (after transfer)

Applications

- Flexible / Stretchable / Electronics
- Transparent electrode
- Support for metallic catalysis
- MEMS or NEMS
- Conductive coating
- Multi-functional Nanocomposite
- Graphene Research
- ETC

Properties of Graphene Film on glass

- 1. Thickness and quality of graphene films is controlled by Raman Spectroscopy Graphene coverage is about 80%
- 2. The graphene film is continuous, with occasional holes and cracks.
- 3. The graphene film is polycrystalline, i.e. it consists of grains with different crystallographic orientation.
- 4. Sheet resistance: $< 500 \Omega/\Box$

Reference

- (1) S. Bae*, H. Kim*et al. "Roll-to-roll production of 30 inch graphene films for transparent electrodes" Nature Nanotech. 5, 574 (2010) [pdf] (Cover Article).
- (2) K S. Kim *et al.* "Large-Scale Pattern Growth of Graphene Films for Stretchable Transparent Electrodes." *Nature*457, 706 (2009) [pdf].