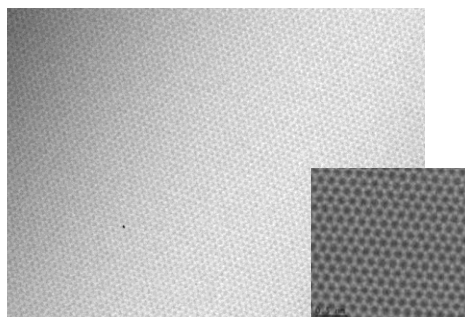


# Graphene on Cu foil

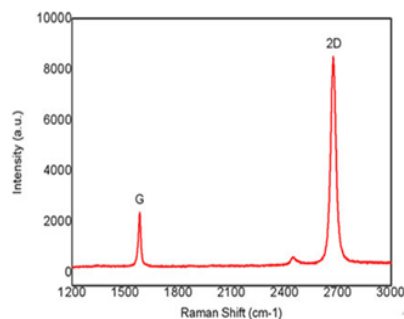


|                  |                                             |
|------------------|---------------------------------------------|
| Product Size     | Up to 500x600mm <sup>2</sup>                |
| Film Morphology  | Continuous Monolayer (>95%)                 |
| Sheet Resistance | Av. < 250~400 $\Omega$ /sq (after transfer) |
| Mobility         | >3500cm <sup>2</sup> /Vs                    |
| Transmittance    | >97%                                        |
| Substrate        | Cu foil (35 $\mu$ m thick)                  |
| Domain Size      | 10-20 $\mu$ m                               |

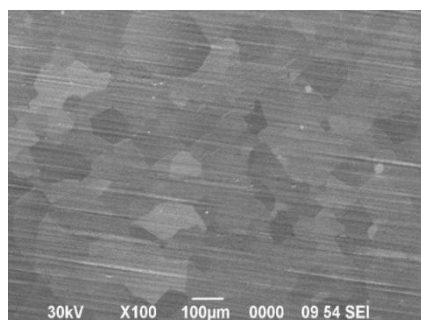
## High-Resolution TEM Images



## Raman Spectrum (after transfer)



## SEM Image of Graphene on Cu



## 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).
- (2) Y. Lee *et al.* Wafer-Scale Synthesis and Transfer of Graphene Films. *Nano Lett.* **10**, 490-493 (2010).
- (3) H.-A-S. Shin *et al.* Graphene-induced Unusual Microstructural Evolution in Ag Plated Cu Foils. *Nanoscale* **6**, 7209-7214 (2014).
- (4) Hae-A-Seul Shin\*, Jaychul Ryu\* *et al.* Highly Uniform Growth of Monolayer Graphene by Chemical Vapor Deposition on Cu-Ag Alloy Catalysts. *Phys. Chem. Chem. Phys.* **16**, 3087-3094 (2014).