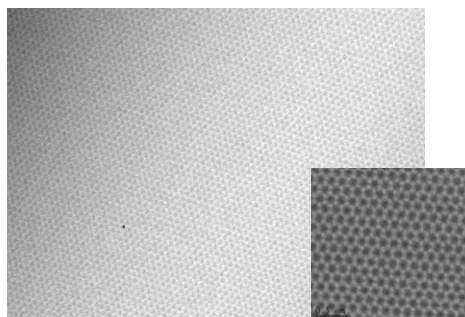


# Graphene on PET

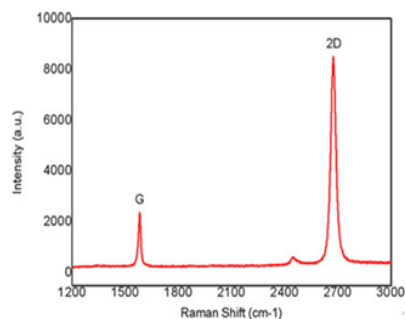


<b>Product Size</b>	Up to 500x600mm <sup>2</sup>
<b>Film Morphology</b>	Continuous Monolayer (>95%)
<b>Sheet Resistance</b>	Av. < 250~400 Ω/sq
<b>Mobility</b>	>3500cm <sup>2</sup> /Vs
<b>Transmittance</b>	>97%
<b>Substrate</b>	PET (188μm) (Standard)
<b>Domain Size</b>	10-20 μm

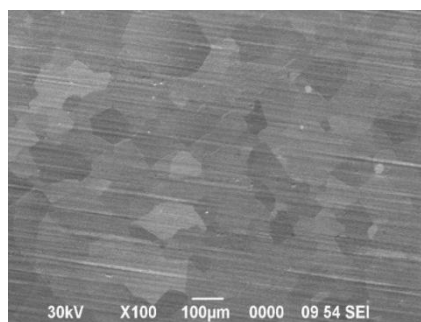
## High-Resolution TEM Images



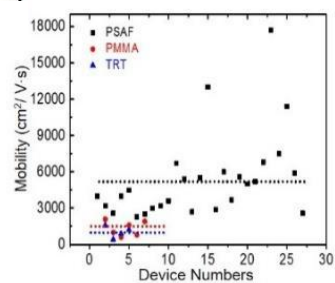
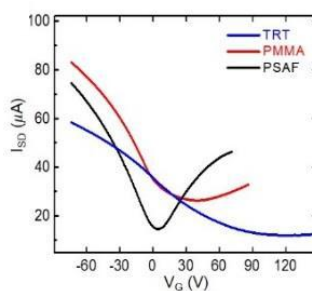
## Raman Spectrum



## SEM Image of Graphene on Cu

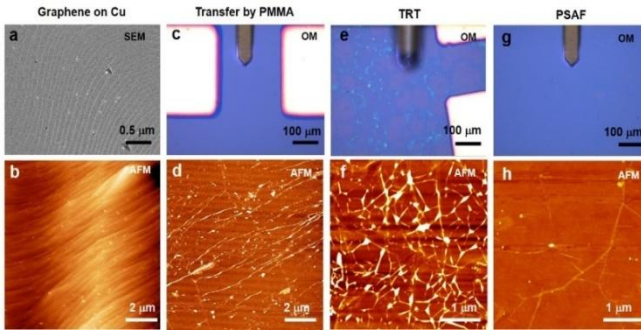


## Electrical Properties

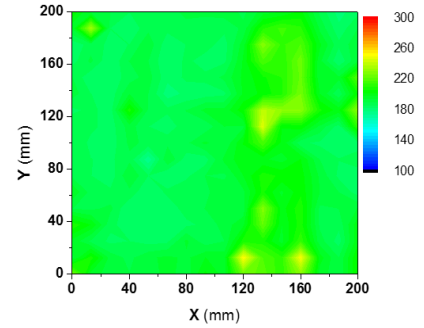




## Ultra-Clean Transfer by Pressure Sensitive Adhesive Films



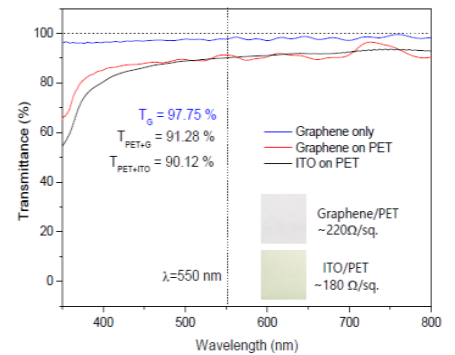
## Sheet Resistance Uniformity



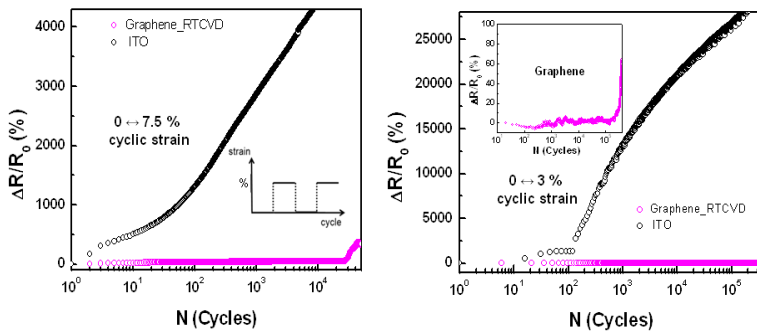
## Application of Graphene on PET for Flexible Touch Screen



## Optical Transmittance



## Mechanical Properties of Graphene on PET



## Reference

- (1) S. Kim *et al.* Ultra-Clean Patterned Transfer of Single-Layer Graphene by Recyclable Pressure Sensitive Adhesive Films. *Nano Lett.* (accepted).
- (2) S. Bae\*, H. Kim\* *et al.* Roll-to-roll production of 30 inch graphene films for transparent electrodes *Nature Nanotech.* **5**, 574 (2010).
- (3) J.-H. Ahn & B. H. Hong Graphene for displays that bend. *Nature Nanotech.* **9**, 737-738 (2014).