Graphenea

Product Datasheet

Graphenea Monolayer Graphene film on Cu with PMMA

Graphene Film

Growth Method	CVD synthesis
Transfer Method	Clean transfer method
Quality Control	Optical Microscopy & Raman checked
Appearance (Color)	Transparent
Transparency	>97%
Appearance (Form)	Film
Coverage	>95%
Number of graphene layers	1
Thickness (theoretical)	0.345 nm
AFM Thickness (air @RT)	<1nm
Electron Mobility on SiO_2/Si	≈1500 cm2/V·s
Sheet Resistance on SiO_2/Si (Van der Pauw)	450±40 Ohms/sq. (1cm x 1cm)
Sheet Resistance PEN (Van der Pauw)	750±50 Ohms/sq. (1cm x 1cm)
Sheet Resistance Quartz (Van der Pauw)	360±50 Ohms/sq. (1cm x 1cm)
Grain size	Up to 20 µm

Substrates

Cu foil

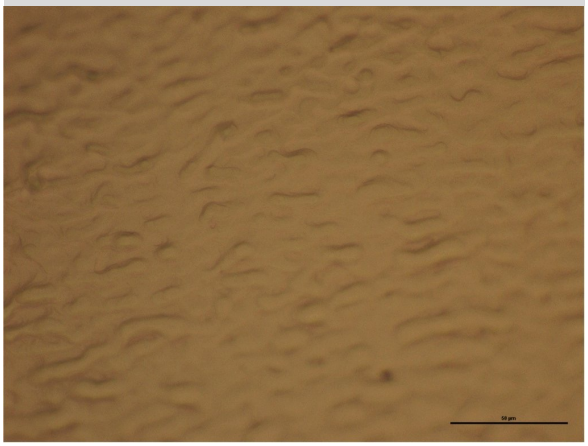
Thickness	18 µm
Roughness	80 nm

PMMA Coating

Thickness	60 nm
PMMA Model	495K, A2

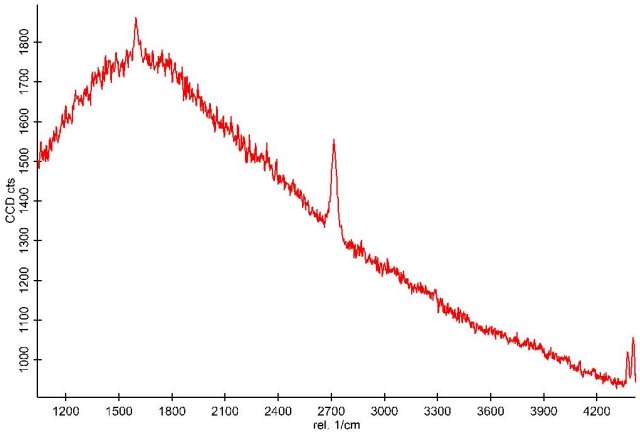
· Recommended use of the product up to 2 months

Optical Microscopy



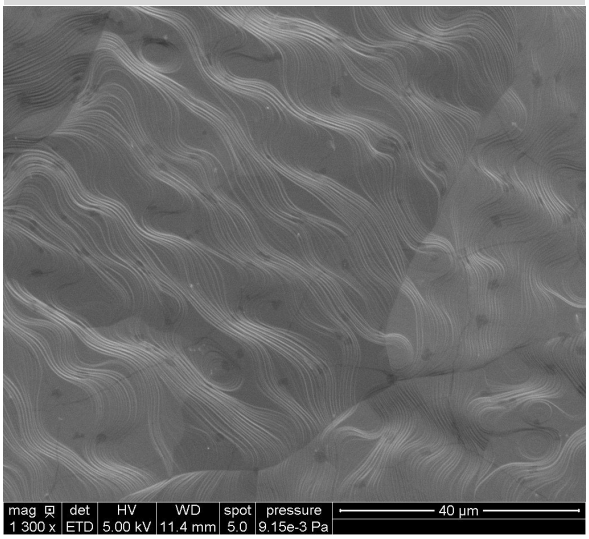
Monolayer Graphene on Cu

Raman Spectrum



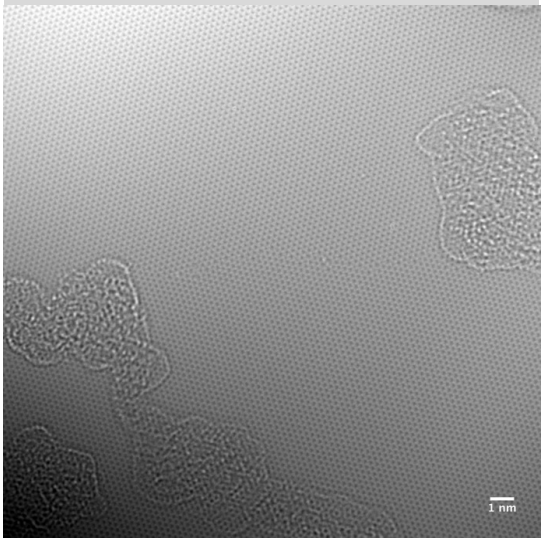
Monolayer Graphene on Cu
Laser wavelength: 457 nm

SEM image



Monolayer Graphene on Cu

HRTEM image



Suspended graphene on TEM grids