

Product Datasheet

Graphenea Monolayer Graphene film on Polymer Film

Graphene Film

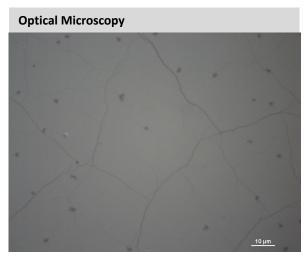
Growth Method	CVD synthesis
Transfer Method	Clean transfer method
Quality Control	Optical Microscopy & Raman checked
Appearance (Color)	Transparent
Transparency	>97%
Appearance (Form)	Film
Coverage	>95%
Number of graphene layers	1
Thickness (theoretical)	0.345 nm
AFM Thickness (air @RT)	<1nm
Electron 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 on Quartz (Van der Pauw)	360±50 Ohms/sq (1cm x1cm)
Sheet Resistance on PET (Van der Pauw)	580±50 Ohms/sq (1cm x1cm)
Grain size	Up to 20 μm

Substrate

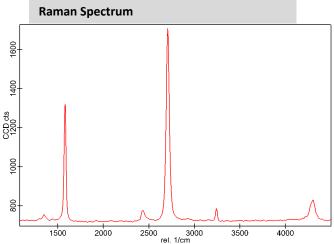
Polymer film

Thickness	100 μm

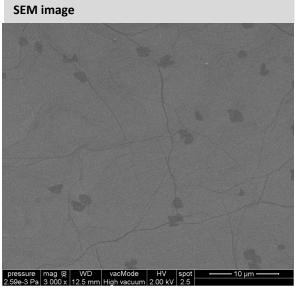




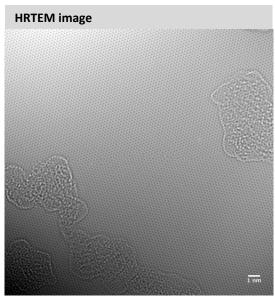
Monolayer Graphene on 90nm SiO₂/Si



- Monolayer Graphene on 90nm SiO2/Si
- Measured with 453nm laser wavelength on a substrate with
- 1-100 Ohm cm resistivity
- I(G)/I(2D)<1
- I(D)/I(G)<0.1



Monolayer Graphene on 300nm SiO₂/Si



Suspended graphene on TEM grids