

Product Datasheet

Graphenea Suspended Monolayer Graphene film on TEM Grids

Graphene Film Properties

Growth Method	CVD synthesis
Transfer Method	Clean transfer method
Quality Control	Optical Microscopy & Raman checked
Size	3 mm (TEM grid diameter)
Appearance (Color)	Transparent
Transparency	>97%
Coverage	>95%
Number of graphene layers	1
Thickness (theoretical)	0.345 nm
AFM Thickness (air @RT)	<1 nm
Electron Mobility on SiO ₂ /Si	• Monolayer Graphene on 90nm SiO ₂ /Si • Measured with 453nm laser wavelength on a substrate with 1-100 Ohm cm resistivity • $\approx 15000\text{ cm}^2/\text{Vs}$
Grain size	• $I(G)/2D < 1$ • Up to 9 μm • FWHM (G) < 23cm ⁻¹ • FWHM (2D) < 44cm ⁻¹

Substrate TEM Grid

Type	QUANTIFOIL® R 2/4
Hole size	2 μm
Space between holes	4 μm
Diameter	3 mm
Coating	Au coated

