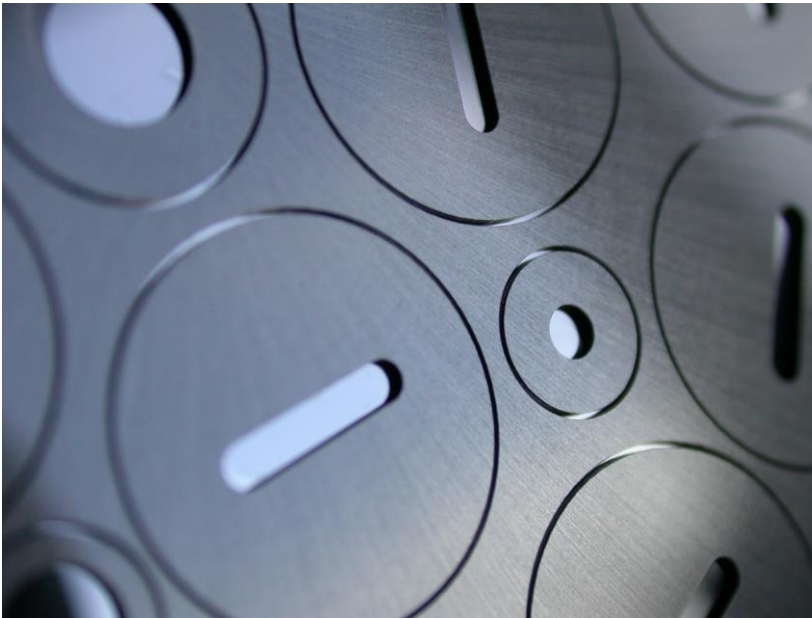


CVD diamond membranes

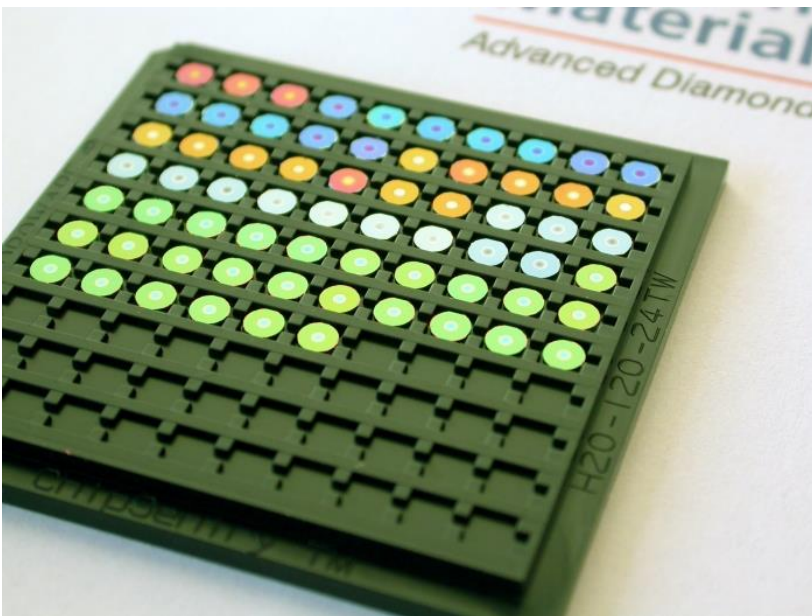
Thicknesses available: Starting from around 40 nm up to several μm

Material: CVD diamond or UNCD diamond

Surfaces: as grown ($t < 2 \mu\text{m}$) or polished ($t > 2 \mu\text{m}$)



Diamond Membranes ($t=4 \mu\text{m}$) on Silicon Wafer. various shapes and dimensions

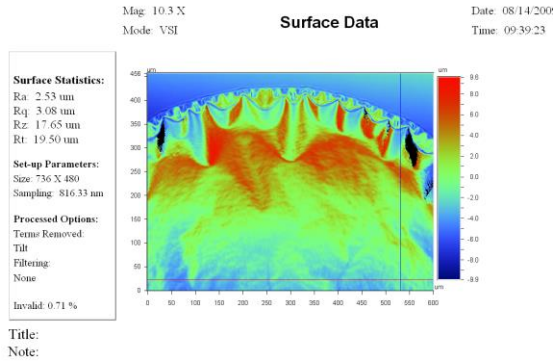


Very thin diamond membranes (30---200 nm), 1 mm free aperture

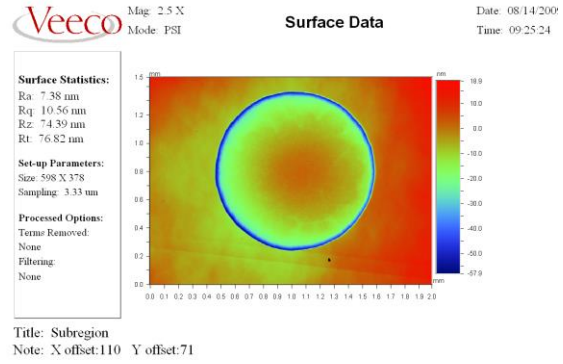


Thin diamond membrane (500 nm) on silicon support grid.
Cell size: 800 μm . 78 % open area. 7 mm free aperture

White light interferometric measurements

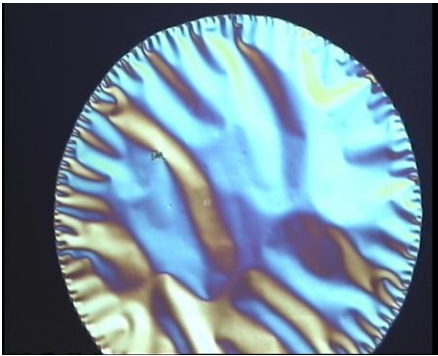
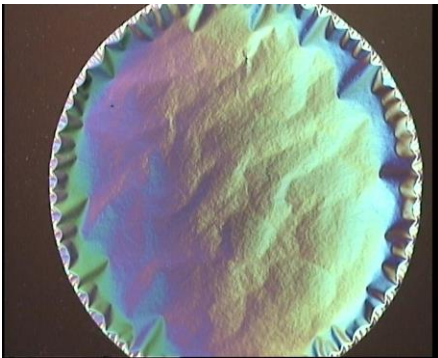


Thickness: 45 nm

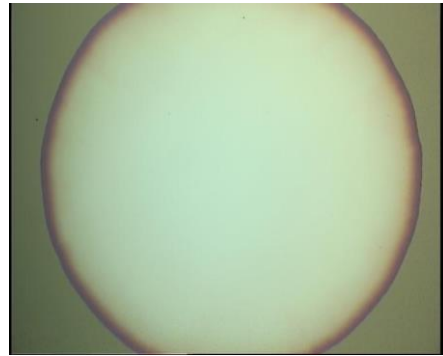


Thickness: 200 nm

Optical images



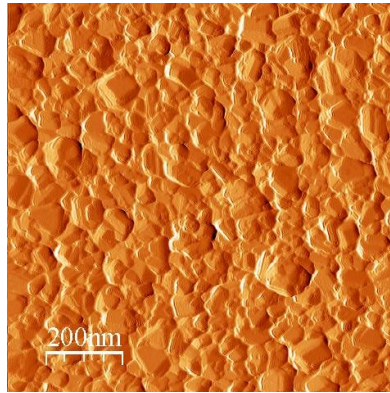
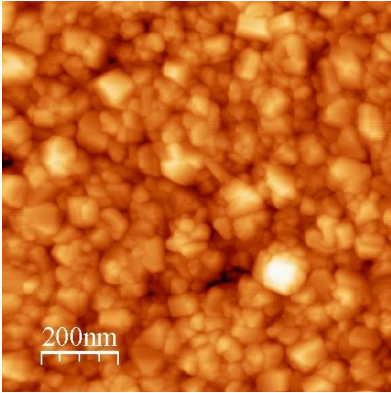
Thickness: 45 nm



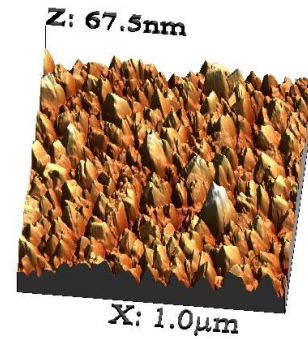
Thickness: 200 nm

AFM measurement

maximum height difference: 68 nm, RMS-roughness: 7.4 nm
1.0 x 1.0 μm topography



error signal



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