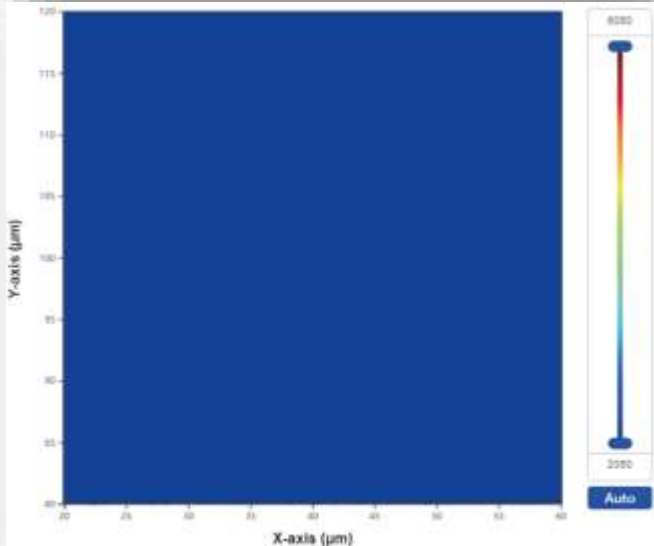
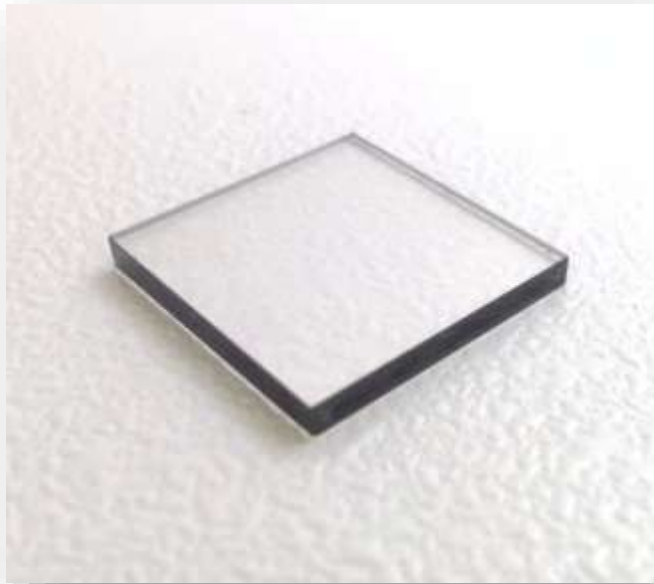


High Purity Diamond



PARAMETER

Element	Content	Notes
N	< 50 ppb	Measured by ERP
B	< 1 ppb	Measured by SIMS
¹³ C	1.1%	Natural abundance
¹² C	98.9%	Natural abundance
Thermal Properties		
Thermal conductivity	> 2000 Wm ⁻¹ K ⁻¹	
Coefficient of thermal expansion(300K)	1.0±0.1 ppm·K ⁻¹	
Coefficient of thermal expansion(1000K)	4.4±0.1 ppm·K ⁻¹	
Geometric properties		
Standard size	2×2mm/3×3mm	
Standard thickness	0.5mm	
Roughness(nm) upper and lower surfaces	Ra < 5 nm	
Roughness(nm) side surfaces	Ra < 100 nm	
Crystallographic orientation	100, 110, 111	