

## Si Data Sheet

<b>Physical Properties</b>			
Knoop Hardness	1150kg / mm <sup>2</sup>	Modulus of bulk (GPa)	102
Density (g/cm <sup>3</sup> )	2.33	Melting point (°C)	1420
Young's modulus (Gpa)	131	Crystal structure	Mono / Poly
Thermal conductivity (J s <sup>-1</sup> ·m <sup>-1</sup> ·K <sup>-1</sup> )	163.3 @ 273K	Specific heat capacity (J/g·K)	0.733
Thermal expansion coefficient (K <sup>-1</sup> )	4.15 × 10 <sup>-6</sup>	Dielectric constant	13@10GHz

<b>Optical Properties</b>	
Transmission range (nm)	1000-10000 & 30000-300000
dn/dt (1/K)	1.6 × 10 <sup>-4</sup>
Absorption Coefficient (1/cm)	01.6 × 10 <sup>-3</sup> @3000nm

### Transmission (@μm)

