

Mechanical grade

Thermal conductivity @ 300K ($\text{Wm}^{-1}\text{K}^{-1}$)	>1900
Thermal expansion coefficient @ 300K (ppmK^{-1})	1.0 ± 0.1
@ 1000K (ppmK^{-1})	4.4 ± 0.1
Specific heat capacity 300K ($\text{Jkg}^{-1}\text{K}^{-1}$)	520
Hardness 300 K (GPa)	70-120 (Orientation dependent)
Fracture stress (MPa)	Surface finish 2000-3000
Fracture toughness ($\text{MPam}^{0.5}$)	5
Young's modulus (GPa)	1050
Poisson's ratio	0.1
Density (10^3kgm^{-3})	3.52
Resistivity Bulk R (Ωcm)	$>10^{12}$
Nitrogen concentration	~ 1 ppm
Boron concentration	$< 10^{16} \text{cm}^{-3}$

Transmission (%)

