

Solid SiC : Typical properties

Type	Structure	Density g/cm ³	Electrical Resistivity Ωcm	Flexural Strength Mpa	Young's Modulus Gpa	Transmittance %	Thermal Conductivity W/mK	Specific Heat J/gK	Coefficient Thermal Expansion x10 ⁻⁶ /K (rt-1000°C)
Opaque	<i>β</i> -SiC	3.21	1x10 ⁻² ~1x10 ⁻¹	590	450	<0.1	250	0.67	4
Translucent	<i>β</i> -SiC	3.21	1x10 ³ ~1x10 ⁴	590	450	1	250	0.67	4

Typical Impurity analysis

Element	ppb
Al	20
Ca	16
Cr	9
Cu	13
Fe	31
K	58
Na	3
Ni	6
Ti	3
V	<1