

CALSIC S Sintered Silicon Carbide Typical Physical Properties



Physical Property	Units	Typical Value
Composition	-	SiC
Grain size	μm	4-10
Density	g/cc	3.15
Hardness (Knoop)	GPa	2800
Modulus of Rupture	MPa	380
Tensile Strength	MPa	250
Compressive Strength	MPa	3900
Elastic Modulus	GPa	410
Coefficient of Thermal Expansion 20-1000°C	$1 \times 10^{-6}/^{\circ}\text{C}$	4.0
Thermal Conductivity	W/mK	125
Poisson's Ratio	-	0.16

All properties are at room temperature (20°C) unless otherwise stated.