

Direct Sintered Silicon Carbide

Typical Properties

	<u>Units</u>	<u>Results</u>
Density	(g/cc)	3.10
Color		black
Grain Size	(um)	1-2
Thermal Conductivity	(W/m-K)	110
Thermal Expansion	(K-1)	4.0x10exp-6
Heat Capacity	(J/g-K)	0.750
Volume Resistivity	(Ohm-cm)	10exp2 - 10exp6
Bending Strength	(MPa)	550
Young's Modulus	(GPa)	410
Hardness	(GPa)	27-28
Fracture Toughness	(MPa-m ^{1/2})	4-5
Maximum use temp	(degree C)	1650