

Silicon carbide (Anti static)

Properties of pressureless sintered silicon carbide

Material Properties	Unit	Silicon carbide
Density	g/cm ³	3.15
Vickers hardness	Hu0.5	2650
Bending strength	MPa	450
Compressive strength	MPa	2650
Elastic modulus	GPa	430
Toughness	MPa·m ^{1/2}	4
Poisson's ratio	—	0.14
Young's Modulus	GPa	430
Purity of silicon carbide	%	99

Thermal Properties	Unit	Silicon carbide
Thermal conductivity @ 25 ° C	W/mK	110
melting point	°C	2800
Specific heat capacity	J/g·K	0.8
linear expansion coefficient	10 ⁻⁶ /K	4

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Electrical Properties	Unit	Silicon carbide
Dielectric constant	1 MHz	10
Breakdown voltage	V/cm	1 × 10 ⁶
Dielectric loss	1 MHz	0.001
Resistivity	Ω·cm	10 ⁷ -10 ⁹

Note: This value is for reference only and may vary slightly depending on the batch conditions.

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