

Silicon carbide (SiSiC)

Reaction silicon carbide SiSiC physical properties

Chemical composition	Unit	Ask
SiC	%	≥83
Si	%	≤16

Physical property	Unit	Index
Density	g/cm ³	≥3.02
Open Porosity	%	≤0.3
Bending strength	MPa	≥250(20°C)
		≥280(1200°C)
Modulus of Elasticity	GPa	≥300(20°C)
Thermal Conductivity	W/m·K	≥140(25°C)
Coefficient of Thermal Expansion	(25-1200°C) / ×10 ⁻⁶ °C ⁻¹	≤4.5±0.5
Vickers Hardness HV ₁₀	GPa	≥20

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

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