

CoorsTek Nitrogen Bonded Silicon Carbide, SCNB

Category : Ceramic , Carbide

Material Notes:

Thermal Shock Delta Tc = 400°C - Thermal shock tests are performed by quenching samples in water from different elevated temperatures.

Delta Tc is the change in temperature which results in a sharp decrease in the flexural strength of the sample. Information provided by

CoorsTek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CoorsTek-Nitrogen-Bonded-Silicon-Carbide-SCNB.php

Physical Properties	Metric	English	Comments
Density	2.60 g/cc	0.0939 lb/in ³	ASTM C20
Water Absorption	8.0 %	8.0 %	ASTM C373

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	152 GPa	22000 ksi	ASTM C848
Flexural Strength	48.0 MPa	6960 psi	ASTM F417
Compressive Strength	140 MPa	20300 psi	ASTM C773

Thermal Properties	Metric	English	Comments
CTE, linear	3.90 µm/m-°C @Temperature 25.0 - 1000 °C	2.17 µin/in-°F @Temperature 77.0 - 1830 °F	ASTM C372
Thermal Conductivity	80.0 W/m-K	555 BTU-in/hr-ft ² -°F	ASTM C408
Maximum Service Temperature, Air	1600 °C	2910 °F	No Load

Optical Properties	Metric	English	Comments
Transmission, Visible	0.00 %	0.00 %	

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