

PUC-SC15 Sintered Silicon Carbide Typical Physical Property Sheet

<u>Property</u>	<u>Units</u>	<u>Typical Value</u>
Density:	g/cm ³	3.10
Hardness:	Knoop R30N	2,600 94.0 min
Flexural Strength: 4 pt @ RT	MPa PSI	450 65,000
Compressive Strength	MPa PSI	3,000 430,000
Elastic Modulus:	GPa 10 ⁶ PSI	400 58
Thermal Expansion: RT to 400°F	10 ⁻⁶ m/m/K 10 ⁻⁶ in/in/°F	4.50 2.50
Thermal Conductivity: @ RT	W/m K Btu/hr ft °F	110 65
Temperature Limit: Oxidizing Atmosphere	°C °F	1650 3000
Average Grain Size:	microns	< 7
Poisson Ratio:		0.16

The properties given are typical values and not intended for use in preparing specifications. While the information contained herein is believed to be reliable, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.