

Advanced Ceramic Products, LLC (ACP)

CVD-SiC (Silicon Carbide)

Density (g/cc) (% theoretical)	3.2
Porosity	Nil
Grain size (microns)	5-10
Flexural Strength (MPa) @ RT	450
Young's Modulus (GPa)	466
Poisson's Ratio	0.21
Hardness HV (0.3) kg/mm squared	2850
Fracture toughness (Mpa m ^{1/2})	3.39
Electrical resistivity (OHM-cm)	<1.5 to >1000
Thermal conductivity (W/m-°K) @ 25C	205-250
CTE (x10 ⁻⁶ /°C)	3.5
Heat capacity (J/kg-°K)	640
Total impurities	< 5 ppm

The information contained in this document is believed to be accurate and reliable, but is presented without guarantee or warranty on the part of Advanced Ceramic Products LLC.

