

CORDIERITE

Property	ASTM Method	Designation	Cordierite
Color		-	Orange-Tan
Gas/ Liquid Permeability	F134B	-	Porous
Density	C 20-97	g/cc	2.00
Hardness	-	Moh's scale	6
Water Absorption	C 20-97	%	10
Flexural Strength	F417-87	psi	9,500
Tensile Strength	-	psi	3,700
Compressive Strength	-	psi	40,000

Linear Coefficient of Thermal Expansion	C372-96	(@25° - 100°C) x10 ⁻⁶ /°C	2.1
		(@25° - 600°C) x10 ⁻⁶ /°C	3.0
Thermal Conductivity 25°C	C408	W/m-K	3
Max. Use Temperature (Non Loading)	-	°C	1300
	-	°F	2350

Dielectric Strength (1/8" Thick)	D149-97A	V/mil	120
Dielectric Constant @ 1MHz	D150-98	At 25°C	6.3

NOTE: THE INFORMATION IN THIS DATA SHEET IS FOR DESIGN GUIDANCE ONLY. STC DOES NOT WARRANT THIS DATA AS ABSOLUTE VALUES. FORMING METHODS AND SPECIFIC GEOMETRY COULD AFFECT PROPERTIES. SLIGHT ADJUSTMENTS CAN BE MADE TO SOME OF THE PROPERTIES TO ACCOMMODATE SPECIFIC CUSTOMER REQUIREMENTS. MOST OF THE DENSE MATERIALS IN THE TABLE ARE RESISTANT TO MECHANICAL EROSION AND CHEMICAL ATTACK. STC HAS PERFORMED TESTING IN ACCORDANCE WITH ASTM D2442 FOR CERTAIN COMPOSITIONS. PLEASE CONTACT OUR TECHNICAL STAFF FOR APPROPRIATE MATERIAL AND SPECIFIC TEST RESULTS.