



	Units	Machinable Cordierite	Machinable Glass Ceramic	Machinable Aluminium Nitride
Max use temperature	°C	1300	1000	1000
	°F	2400	1800	1800
Density	g/cm ³	1	2.5	2.9
Open porosity	%	60	<0.5	<0.5
Bending strength	MPa	7	100	300
Modulus of elasticity	GPa	15	65	175
Thermal conductivity	W/mK		1.7	90
Coefficient of thermal expansion	x10 ⁻⁶ /K	3	7	5
KIC Fracture Toughness	MPam ^{1/2}		1.5	
Volume resistance	(Ω.cm)		>10 ¹⁴	>10 ¹⁵
Dielectric constant	-		6	7
Dielectric strength	(kV/mm)		15	

Machinable Ceramics

