Materials	Density	Coefficient of elasticity	Bending strength	Hardness	Fracture toughness	Coefficient of thermal expansion	Thermal shock resistance	Coefficient of thermal conductivity	Electrical resistance	Dielectric strength	Dielectric constant	Dielectric loss
	g/cm^3	GPa	MPa	GPa	MPa√m	$\times10^{-6}/K$	K	W/m · K	Ω · cm	kV/mm		$\times10^{-4}$
Alumina (Al2O3)	3.9	380	450	16	4	7.3	200	30	$>10^{14}$	12	10	<300
Zirconia (ZrO2)	6	200	1000	13	6	10	280	3	1012	>10	35	20
Silicon carbide (SiC)	3.1	410	500	24	3	4.6	450	170	106	-	-	-
Silicon nitride (Si3N4)	3.2	290	720	14	5	2.3	700	26	$>10^{14}$	>10	8	3
Aluminum nitride(AlN)	3.3	320	350	13	3	4	400	160	1014	>15	9	10
Low thermal expansion insulating ceramics	2.3	90	150	4.5	2	0.9	700	1.3	1010	20	7.5	35

YEEDEX®