

Table of Physical Properties,Electrical Properties and Chemical Properties of Ceramic Material

NO.	Item	Testing Conditions	Unit	Steatite Ceramic	75% Ceramic	92% inside Ceramic	94% coffee Color	95% Ceramic	96% Pink Ceramic	99% Ceramic
1	Volume density		G/cm ³	≥2.7	≥3.2	3.6	3.65	3.6	3.7	3.7
2	Air tightness							pass		pass
3	Bending strength		Mpa	≥140	≥200	≥280	≥280	≥280	≥280	≥300
4	Thermal shock resistance					pass	pass	pass	pass	pass
5	Breakdown strength	D.C	KV/mm	≥20	≥20	≥18	≥18	≥18	≥18	≥15
6	S.H.Shore hardness					96	96	97	97	98
7	Permittivity	1±0.PMHZ		<9	<9.5	<9.5	<9.5	<9.5	<8.5	<9
8	Dielectric loss		1±0.PMHZ Tg8×10 ⁻⁴			<1.5	<2.0	<1.0	<1.0	<0,3
9	Specific volumn resistance		100±5℃ Ω .cm			≥10 ¹⁵	≥10 ¹⁵	≥10 ¹⁵	≥10 ¹⁵	≥10 ¹⁵
10	Water absorption			0	0	0	0	0	0	0
11	Chemical Stability	1.1HCL	Mg/cm ²					≥7.0		≥0.7
		10% NaoH	Mg/cm ²					≤0.2		≤0.1
12	Linear expansion coefficient	20℃-100℃	X10-6/℃	6.5-8	6.5-8	6.5-8	6.5-8	6.5-8	6.5-8	6.5-8
		20℃-500℃	X10-6/℃	6.5-7.5	6.5-7.5	6.5-7.5	6.5-7.5	6.5-7.5	6.5-7.5	6.5-7.5
		20℃-800℃	X10-6/℃	6.5-8	6.5-8	6.5-8	6.5-8	6.5-8	6.5-8	6.5-8

*NOTE: The information shown on the table is for reference. RESISTEK can change it without prior notice.