

Machinable ceramics Shapal Hi Msoft (Typical Data)

15. Sept. 2011

*The following datas are not guaranteed values.

Property		Test Conditions	Shapal Hi Msoft	Units
GENERAL	Density	Corrected to 4°C	2.88	g/cm ³
	Porosity	25°C	0	%
ELECTRICAL	Volume Resistivity	25°C, DC	1.0×10 ¹⁵	Ωcm
	Dissipation Factor (tan δ)	25°C, 1MHz	10×10 ⁻⁴	
	Dielectric Constant (ε)	25°C, 1MHz	6.8	
	Dielectric Strength		65	kV/mm
THERMAL	Thermal Expansion Coefficient	RT~400°C	4.8×10 ⁻⁶	/°C
		RT~600°C	4.9×10 ⁻⁶	/°C
		RT~800°C	5.0×10 ⁻⁶	/°C
	Thermal Conductivity	25°C	92	W/m·K
	Maximum Use Temp.	in air	1,000	°C
		in nonoxidizing atmosphere	1,900	°C
Thermal Shock Resistance Δt	water quench	400	°C	
MECHANICAL	Bending Strength	25°C	300	MPa
	Compressive Strength	25°C	100	kg/mm ²
	Young's Modules	25°C	1.8×10 ⁴	kg/mm ²
	Poisson's Ratio	25°C	0.31	
	Vickers Hardness (Hv)	25°C, 300g	380	kg/mm ²
CHEMICAL	Resistance to Acid	10%HCl 24Hrs, 25°C	0.2	mg/cm ² wt.loss
	Resistance to Base	10%NaOH 24Hrs, 25°C	60	mg/cm ² wt.loss
PURITY	O	—	0.9	%
	Ca	—	1,300	ppm
	C	—	300	ppm
	Cr	—	1	ppm
	Mg	—	1	ppm
	Ni	—	2	ppm
	Fe	—	8	ppm
	Si	—	40	ppm
Ti	—	20	ppm	

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