

**CEM-1 DATA SHEET**

**\*GENERAL PROPERTIES**

Test Item		Unit	Condition	CCP-508 (SW)	
				Typical Values	Guaranteed Value
Solder Float	S-260°C	sec	A	60 ↑	≥ 20
	S-288°C	sec	A	46	≥ 10
Peel Strength		Kgf/cm	A	2.1	≥ 1.4
			S-260°C / 20sec	2.1	≥ 1.4
Flammability	UL94	----		PASS	V-0
Insulation Resistance		Ω	C-96/20/65	3.5×10 <sup>14</sup>	≥ 5×10 <sup>12</sup>
			+D-2/100	3.8×10 <sup>13</sup>	≥ 5×10 <sup>10</sup>
Flexural Strength	CD	Kgf/mm <sup>2</sup>	A	33	≥ 25
	MD			39	≥ 30
CTI		Volt	IEC-112 Method	PASS	≥ 600
Volume Resistivity		Ω-cm	C-96/20/65	3.5×10 <sup>15</sup>	≥ 1×10 <sup>14</sup>
			+C-96/40/90	3.2×10 <sup>14</sup>	≥ 1×10 <sup>13</sup>
Surface Resistance	Etched-Side	Ω	C-96/20/65	3.5×10 <sup>13</sup>	≥ 1×10 <sup>12</sup>
			+C-96/40/90	3.8×10 <sup>12</sup>	≥ 1×10 <sup>11</sup>
	Unclad-Side	Ω	C-96/20/65	3.4×10 <sup>13</sup>	≥ 1×10 <sup>12</sup>
			+C-96/40/90	4.8×10 <sup>12</sup>	≥ 1×10 <sup>11</sup>
(1 MHZ) Dielectric Constant		----	C-96/20/65	4.8	≤ 5.0
			+D-48/50	4.9	≤ 5.5
(1 MHZ) Dissipation Factor		----	C-96/20/65	0.031	≤ 0.035
			+D-24/23	0.034	≤ 0.045
Water Absorption		%	E-24/50	0.16	≤ 0.30
			+D-24/23		
Glass Transition Temperature (Tg)		°C	TMA 法	122	NA
CTE	CD	ppm/°C	Ambience to 100°C	19.3	NA
	MD			13.4	NA
Heat Resistance		----	E-1hr/140°C	No Blistering	No Blistering
			E-30min/190°C		
Chemical Resistance		Trichloroethylene / 3 min		No Apparent Change	No Apparent Change
		FeCl3 (37%) / 40°C / 3min			
		NaOH (3%) / 40°C / 3min			

\*(All of the data are for reference)