

EM-888K / EM-888BK

High Tg / Very Low Loss / Halogen Free

- Applications include: high-speed server, network and telecom.
- Designed for excellent CAF resistance.
- RoHS Compliant
- UL File: E150504
- Applicable IPC Slash Sheets: IPC-4101 /127, /128, /130; IPC-4103 /240, /540

Basic Laminate Property

Property	Item		Typical Value	Unit	Test Condition	IPC-TM-650
Thermal	Tg		N/A	°C	DSC	2.4.25
			170	°C	TMA	2.4.24
			210	°C	DMA	2.4.24.4
	CTE, X/Y-axis		12/15	ppm/°C	< Tg, TMA	2.4.24.5
	CTE, Z-axis		40~45	ppm/°C	< Tg, TMA	2.4.24
			220~240	ppm/°C	> Tg, TMA	
	Z-axis Expansion		2.4	%	50~260 °C	2.4.24
	Td		390	°C	TGA (5% W.L)	2.4.24.6
	T288		>60	min.	Clad	2.4.24.1
	Thermal Conductivity		0.48	W/m.K	-	ASTM D5470
Electrical	Dk (R/C: 50%)	1 GHz	3.3	-	C-24/23/50	2.5.5.9
		10 GHz	3.2	-		Cavity Resonator
	Df (R/C: 50%)	1 GHz	0.0047	-	C-24/23/50	2.5.5.9
		10 GHz	0.0062	-		Cavity Resonator
	Volume Resistivity		>10 ¹⁰	MΩ-cm	C-96/35/90	2.5.17.1
	Surface Resistivity		>10 ⁹	MΩ	C-96/35/90	2.5.17.1
Physical	Water Absorption		0.1	%	E-1/105+D-24/23	2.6.2.1
	Peel Strength	VLP, H oz	4.8	lb/in	As Received	2.4.8
		HVLP, H oz	4.1	lb/in	As Received	
	Flexural Strength	Warp	510~570	MPa	As Received	2.4.4
		Fill	450~500	MPa		
	Flame Resistance		V-0	-	C-48/23/50	UL-94

Above typical values are tested under specified constructions and not intended for specification.