

EM-626 / EM-626B

High Tg / Ultra Low Loss / Halogen Free

- Applications include: high-speed Ethernet, network, HPC, AI, 5G and antenna.
- Designed for high thermal reliability with excellent CAF resistance.
- Outstanding multiple lamination capability.
- Fabrication friendly resin can be combined with mid-loss resins for "hybrid" designs.
- RoHS Compliant
- UL File: E150504
- Applicable IPC Slash Sheets: IPC-4101 /134; 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
			200	°C	DMA	2.4.24.4
	CTE, X/Y-axis		12/13	ppm/°C	< Tg, TMA	2.4.24.5
	CTE, Z-axis		35~40	ppm/°C	< Tg, TMA	2.4.24
			140~160	ppm/°C	> Tg, TMA	
	Z-axis Expansion		1.8	%	50~260°C	2.4.24
	Td		430	°C	TGA (5%W.L)	2.4.24.6
	T288		> 120	min.	Clad	2.4.24.1
			> 120	min.	Etched	
	Thermal Conductivity		0.49	W/m.K	-	ASTM D5470
Electrical	Dk (R/C: 55/70%)	1GHz	3.6/3.2	-	C-24/23/50	2.5.5.9
		10GHz	3.5/3.1	-		Cavity Resonator
		10GHz	3.5/3.1	-		SPC method
	Df (R/C: 55/70%)	1GHz	0.0034/0.0029	-	C-24/23/50	2.5.5.9
		10GHz	0.0045/0.0038	-		Cavity Resonator
		10GHz	0.0034/0.0028	-		SPC method
	Volume Resistivity		> 10 ¹⁰	MΩ-cm	C-96/35/90	2.5.17.1
	Surface Resistivity		> 10 ⁹	MΩ		
Physical	Water Absorption		0.09	%	E-1/105+D-24/23	2.6.2.1
	Peel Strength	RTF, H oz	5.0	lb/in	As Received	2.4.8
		HVLP, H oz	4.0	lb/in		
	Flexural Strength	Warp	430~470	MPa	As Received	2.4.4
		Fill	410~450	MPa		
	Flame Resistance		V-0	-	C-48/23/50	UL-94

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