

TECHNICAL INFORMATION

KB-6160

KB-6160 is glass fabric based epoxy resin copper clad laminate which has UV blocking function and has equal performance as KB-6150. It is suitable for printed circuit board that required UV blocking and AOI (automatic optical inspection) function.

Type	Grade	Construction
KB-6160	ANSI (NEMA) FR-4	Glass fabric, Epoxy resin, Copper foil
<p><i>Features</i></p> <ul style="list-style-type: none"> ● UV Blocking Board with a thickness of 0.8mm could effectively block UV radiation with less than 0.5% UV penetration. ● Excellent mechanical performance Good performance in dimension thickness. ● Excellent heat and moisture resistance Resistance of ion-migration is effective in hot and humid environment. “Measling” would not occur in stringent condition of hot and moisture. <p><i>Standard Configuration</i></p> <ul style="list-style-type: none"> ● Thickness : 0.1mm – 3.2mm (IPC-4101 Class B) ● Copper Cladding : 18μm, 35μm , 70μm ● Regular Size (mm) : 914 x 1220, 1020 x 1220, 1041 x 1245, 1067 x 1220 ● Other Size : As specified by customers 		

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General Properties

Properties	Unit	Test Condition	IPC-4101 Testing Method	IPC-4101 Requirement	Typical Value
Flexural Strength	Kg/m ²	Lengthwise Crosswise	2.4.4	above 4.23 x 10 ⁷ above 3.52 x 10 ⁷	5.58 x 10 ⁷ 4.54 x 10 ⁷
Peel Strength (1 oz)	Kg/cm	A	2.4.8	above 1.43	2.0
Glass Transition (Tg)	°C	E2 / 105 DSC	2.4.25	above 130	135
Flammability	Sec	E24 / 23	2.3.10	Average Burn <= 5 Max Burn <= 10	1.6 7.0
Thermal Stress	Sec	Float 288 °C	2.4.13.1	above 20	above 180
Surface Resistance	MΩ	C96/35/90	2.5.17.1	above 1.0 x 10 ⁴	1.0 x 10 ⁶
Volume Resistivity	MΩ-cm	C96/35/90	2.5.17.1	above 1.0 x 10 ⁶	5.0 x 10 ⁹
Permittivity	—	Etched/@1MHZ	2.5.5.3	less than 5.4	4.6
Loss Tangent	—	Etched/@1MHZ	2.5.5.3	less than 0.035	0.02
Moisture Absorption	%	D24/23	2.6.2.1	less than 0.5	0.1

Remarks: Typical values for reference only.