



High thermal conductivity Glass composite circuit board materials

高熱伝導性ガラスコンポジット基板材料

EcoOL
Double-sided R-1787

Applications 用途

LED lighting, LED-related equipment, Power supply application, Etc.
LED 照明、LED 関連機器、電源機器など



Supporting thermal dissipation from PCB material that good for thermal conductivity property and processability because its resin board.

優れた熱伝導性により、基板の放熱を材料から貢献。樹脂基板ならではの加工性や設計のしやすさを実現

**Thermal conductivity
1.1W/m·K**

CTI≥600V

Excellent processability

■ LED thermal simulation LED放熱シミュレーション

● Analysis

To analyze the impact of material thermal conductivity to LEDs rising of temperature by using thermic fluid analysis software "STAR-CD"

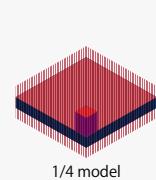
● Assumed heat generation :0.4W

● Sample board thickness :1.0mm

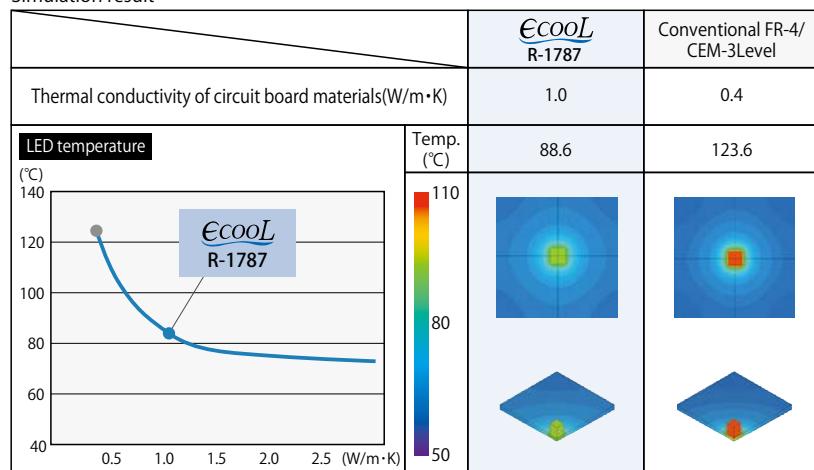
Size of test sample

Property	Thermal conductivity [W/m·K]
LED	340
Copper foil	398

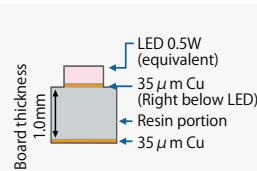
Analysis mesh



Simulation result



Cross section



Boundary condition



■ General properties 一般特性

Item	Test method	Condition	Unit	EcoOL R-1787	Conventional CEM-3 R-1786
Thermal conductivity	Laser flash	A	W/m·K	1.10	0.45
Glass transition temp.(Tg)	TMA	Temp. rising rate:10°C/min	°C	140	140
Solder heat resistance	JIS C 6481	260°C solder float for 2min	—	No abnormality	No abnormality
Heat resistance 1oz	JIS C 6481	A	—	230°C 60min	240°C 60min
Tracking resistance	IEC 60112	A	V	CTI≥600	CTI≥600
Insulation resistance	JIS C 6481	C-96/20/65	MΩ	1x10 ⁸	5x10 ⁸

The sample thickness is 1.6mm.

The above data are typical values and not guaranteed values. 上記データは当社測定による代表値であり、保証値ではありません。

Please see the page for "Notes before you use" 商品のご採用に当たっての注意事項は こちら

