



CS-3945

High Thermal Conductive & White-Colored CCL

Features and Benefits:

- High Thermal Conductivity (1.3W/mK) & White-Colored CCL
- UL94 V-0 Approved (Only one in the world)
- Excellent UV and Heat Resistance
- Eco-Friendly (Halogen Free)
- High Breakdown Voltage (11kV/0.1mm)
- Low Thermal Resistance due to Thinness (60um)
- Excellent Drilling (FR-4 Equivalent)
- Suitable for Curved Surface Application (Bendable)

Suitable for Curved Shape!



White Color!

Test Item / Test Method		Unit	Condition	Typical Value
Thermal Conductivity	Laser Flash	W/mK	A	1.3
Breakdown Voltage	110um	kV	A	9.8
Insulation Resistance		MΩ	C-96/20/65	3.0x10 ⁸
Surface Resistance		MΩ	C-96/20/65	1.0x10 ⁹
Volume Resistivity		MΩ · m	C-96/20/65	1.0x10 ⁷
Tracking Resistance (IEC)		-	A	600
Dielectric Constant (Dk)	@1MHz	-	A	7
Loss Tangent (Df)	@1MHz	-	A	0.015
Peel Strength	35um	kN/m	A	1.0
Solder Limit	260°C	sec.	A	>300
Tg	DMA	°C	A	140
Water Absorption (0.6mm)		%	E-24/50 +D-24/23	0.1
Specific Gravity		-	-	2.4
Flexural Modulus	Warp/Fill	GPa	A	31/29
Flexural Strength	Warp/Fill	MPa	A	450/350
CTE (XY)	Warp/Fill	ppm/°C	A	13/14
CTE (Z)	α1	ppm/°C	A	20-30
	α2	ppm/°C	A	130-150
Flammability		-	UL 94	V-0

Product	Cu (um)	Dielectric (mm)
CCL (CS-3945)	18 / 35 / 70	0.06 / 0.11 / 0.2 / 0.4 / 0.8 / 1.0 / 1.2 / 1.6