

Hangzhou Hanchuang Electronics Material Co.,LTD

杭州韩创电子材料有限公司

Test report and certificate for CCL

Type:	FR-4					
Grade:	A3					
Lot No:						
No.	Item		Unit	Request	Result	Method
1	Glass transition temperature		°C	-	115	GB/T 22567-2008
2	Barcol scale of hardness		-	-	71	GB/T 3854-2005
3	Density		g/cm ³	-	2.08	GB/T 1303.2-2009
4	Water absorption		mg	-	12.0	
5	Vertical layer bending strength	Vertical	Mpa	-	589	
		Horizontal		-	525	
6	Bending modulus of elasticity	Vertical	Mpa	-	2.51x10 ⁴	
		Horizontal		-	2.28x10 ⁴	
7	Horizontal layer impact strength	Vertical	kJ/M ²	-	63.0	
		Horizontal		-	48.6	
8	Vertical layer compress strength		Mpa	-	492	
9	Horizontal layer shear strength	Vertical	Mpa	-	58.2	
		Horizontal		-	58.9	
10	Tensile strength	Vertical	Mpa	-	417	
		Horizontal		-	347	
11	Vertical layer electric strength (90°C±2°C oil, 20s)		MV/m	-	12.1	
12	Horizontal layer breakdown voltage (90°C±2°C oil, 20s)		kV	-	76.7	
13	Relative dielectric constant(50Hz)		-	-	5.19	
14	Dissipation factor(50Hz)		-	-	1.30x10 ⁻²	
15	Insulation resistance after immersion	Vertical	Ω	-	2.0x10 ¹⁰	
		Horizontal		-	2.2x10 ¹⁰	
16	Comparative tracking index(CTI)		-	-	CTI 600	