

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:	A2					
Lot No:						
No.	Item		Unit	Request	Result	Method
1	Glass transition temperature		℃	-	121	GB/T 22567-2008
2	Barcol scale of hardness		-	-	67	GB/T 3854-2005
3	Density		g/cm ³	-	2.04	GB/T 1303.2-2009
4	Water absorption		mg	-	10.6	
5	Vertical layer bending strength	Vertical	Mpa	-	568	
		Horizontal		-	506	
6	Bending modulus of elasticity	Vertical	Mpa	-	2.38x10 ⁴	
		Horizontal		-	2.04x10 ⁴	
7	Horizontal layer impact strength	Vertical	kJ/M ²	-	68.3	
		Horizontal		-	42.5	
8	Vertical layer compress strength		Mpa	-	525	
9	Horizontal layer shear strength	Vertical	Mpa	-	60	
		Horizontal		-	60.1	
10	Tensile strength	Vertical	Mpa	-	467	
		Horizontal		-	384	
11	Vertical layer electric strength (90℃±2℃ oil, 20s)		MV/m	-	9.6	
12	Horizontal layer breakdown voltage (90℃±2℃ oil, 20s)		kV	-	98.3	
13	Relative dielectric constant(50Hz)		-	-	5.25	
14	Dissipation factor(50Hz)		-	-	6.66x10 ⁻²	
15	Insulation resistance after immersion	Vertical	Ω	-	2.4x10 ⁹	
		Horizontal		-	1.4x10 ¹⁰	
16	Comparative tracking index(CTI)		-	-	CTI 400	