

Material test certificate of fr4 laminates

No.	Projects	Unit	FR4 Result
1	Flexural strength perpendicular A to lamination	Mpa	494
			473
2	Impact strength parallel to laminations (Charpy) A	KJ/m ²	66.7
	laminations (Charpy) B		45.3
3	Dielectric strength perpendicular to laminations (in 90±2°C transformer oil, 1mm in thickness) B	MV/m	10.7
4	Breakdown voltage parallel to laminations (in 90±2°C transformer oil)	KV	54.6
5	Insulation resistance after impregnated in water A	Ω	1.5*10 ¹³
	B		1.7*10 ¹³
6	Dissipation factor	/	3.3*10 ⁻²
7	Dielectric constant (1MHz)	/	5.14
8	Water absorption	mg	6.5
9	Combustibility	class	V-0
10	Working temperature	°C	130

Above data are testing with 3mm thickness boards.