



## LAMINATE TESTING REPORT

CUSTOMER	LAMINATES			REPORT DATE	August 24, 2008		
TYPE	FR-4	P.O NO	LAM0805	MATERIAL NO.	_____		
SPECIFICATION	1.5mm 35/00 1092mm×1245mm Yellow Logo						
QUANTITY	250 sheets		GRADE	A	RESIN TYPE	Normal TG	
LOT NO	B80824522					Pallet NO	13
TESTING ITEM	SPECIFICATION			TESING RESULT			
1.SURFACE AND SUBSURFACE IMPERFECTION	IPC-4101B 3.8.3.1.6			ACC			
2.BOW AND TWIST	IPC-4101B 3.8.4.3			0.45%-0.55%			
3.THERMAL STRESS UNETCHED ETCHED	IPC-4101B 3.10.1.2			NO DEFECT			
4.PEEL STRENGTH AS RECEIVED AFTER THERMAL STRESS	IPC-4101B 3.9.1.1 8LB/IN 8LB/IN			12.0LB/IN~12.8LB/IN			
5.PRESSURE VESSEL THERMAL STRESS	IPC-4101B 3.12.1.3			NO DEFECT			
6.TG	DSC $\geq 130^{\circ}\text{c}$			$134^{\circ}\text{c} \sim 136^{\circ}\text{c}$			
7.VOLUME RESISTIVITY AFTER MOISTURE AFTER TEMPERATURE CYCLE AT ELEVATED TEMPERATURE	IPC-4101B 3.11.1.3 $\geq 10^6 \text{ M}\Omega \cdot \text{CM}$ $\geq 10^3 \text{ M}\Omega \cdot \text{CM}$			$\geq 10^7 \text{ M}\Omega \cdot \text{CM}$ $\geq 10^5 \text{ M}\Omega \cdot \text{CM}$			
8.SURFACE RESISTIVITY AFTER MOISTURE AFTER TEMPERATURE CYCLE AT ELEVATED TEMPERATURE	IPC-4101B 3.11.1.4 $\geq 10^4 \text{ M}\Omega$ $\geq 10^3 \text{ M}\Omega$			$\geq 10^6 \text{ M}\Omega$ $\geq 10^5 \text{ M}\Omega$			
9.DIELECTRIC BREAKDOWN ( PARALLEL LAMINATIONS )	IPC-4101B 3.11.1.6 $\geq 40\text{KV}$			42			
10.DIELECTRIC CONSTANT	IPC-4101B 3.11.1.1 AT 1MHZ $\leq 5.4$			4.4-4.6			
11.LOSS TANGENT	IPC-4101B 3.11.1.2 AT 1MHZ $\leq 0.035$			0.027			
12.FLAMMABILITY	UL-94V0			UL-94V0			
FINAL TESTING RESULT : ACC	INSPECTOR:		APPROVED:				