



# Test Report


SHIXING KINGBOARD MANUFACTURING FACTORY  
BAOSHI INDUSTRIAL DISTRICT, SHISHIXIA AREA,  
TAIPING TOWN, SHIXING COUNTRY, SHAOGUAN  
CITY, CHINA

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**The following merchandise was (were) submitted and identified by the client as :**

Type of Product : COPPER CLAD LAMINATE  
Style/Item No : KB-1150  
Buyer/Order No : SONY  
Sample Received : 2004/12/23  
Testing Date : 2004/12/23 TO 2004/12/30

=====  
**Test Result** : - Please see the next page -

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

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## Test Result

PART NAME NO.1 : BROWN LAMINATE

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Asbestos								
Anthrophyllite(CAS NO.017068-78-9)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative				
Crocodolite(CAS NO.012001-28-4)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative				
Amosite(CAS NO.012172-73-5)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative				
Tremolite(CAS NO.014567-73-8)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative				
Chrysotile(CAS NO.012001-29-5)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative				
Actinolite(CAS NO.013768-00-8)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
AZO		As per LMBG 8202-2						
4-AMINODIPHENYL (CAS NO.92-67-1)	ppm	Analysis was performed by GC/MS.	3	N.D.				
BENZIDINE (CAS NO.92-87-5)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	ppm	Analysis was performed by GC/MS.	3	N.D.				
2-NAPHTHYLAMINE (CAS NO.91-59-8)	ppm	Analysis was performed by GC/MS.	3	N.D.				

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Test Item (s):	Unit	Method	MDL	Result				
				No.1				
O-AMINOAZOTOLUENE (CAS NO.97-56-3)	ppm	Analysis was performed by GC/MS.	3	N.D.				
2-AMINO-4- NITROTOLUENE (CAS NO.99-55-8)	ppm	Analysis was performed by GC/MS.	3	N.D.				
P-CHLOROANILINE (CAS NO.106-47-8)	ppm	Analysis was performed by GC/MS.	3	N.D.				
2,4-DIAMINOANISOLE (CAS NO.615-05-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4,4- DIAMINODIPHENYLMETHA NE (CAS NO.101-77-9)	ppm	Analysis was performed by GC/MS.	3	N.D.				
3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)	ppm	Analysis was performed by GC/MS.	3	N.D.				
3,3- DIMETHOXYBENZIDINE (CAS NO.119-90-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				
3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)	ppm	Analysis was performed by GC/MS.	3	N.D.				
3,3-DIMETHYL-4,4- DIAMINODIPHENYLMETHA NE (CAS NO.838-88-0)	ppm	Analysis was performed by GC/MS.	3	N.D.				
P-CRESIDINE(2-METHOXY- 5-METHYLANILINE) (CAS NO.120-71-8)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4,4-METHYLENE-BIS-(2- CHLORANILINE) (CAS NO.101-14-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4,4-OXYDIANILINE (CAS NO.101-80-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4,4-THIODIANILINE (CAS NO.139-65-1)	ppm	Analysis was performed by GC/MS.	3	N.D.				
O-TOLUIDINE (CAS NO.95- 53-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				

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Test Item (s):	Unit	Method	MDL	Result				
				No.1				
2,4-TOLUYLENDIAMINE (CAS NO.95-80-7)	ppm	Analysis was performed by GC/MS.	3	N.D.				
2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7)	ppm	Analysis was performed by GC/MS.	3	N.D.				
O-ANISIDINE (CAS NO.90-04-0)	ppm	Analysis was performed by GC/MS.	3	N.D.				
P-AMINOAZOBENZENE (CAS NO.60-09-3)	ppm	Analysis was performed by GC/MS.	3	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Halogen-Bromine (Br)(CAS No:007726-95-6)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	N.D.				
Halogen-Chlorine (Cl)(CAS No:007782-50-5)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
CFC's(Chlorofluorocarbons)		With reference to US EPA 8260.						
Group I								
Chlorofluorocarbon-11(CAS No:000075-69-4)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-12(CAS No:000075-71-8)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				

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Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Chlorofluorocarbon-113(CAS No:000076-13-1)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				
Chlorofluorocarbon-114(CAS No:000076-14-2)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				
Chlorofluorocarbon-115(CAS No:000076-15-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				
Group III								
Chlorofluorocarbon-13(CAS No:000075-72-9)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				
Chlorofluorocarbon-111(CAS No:000354-56-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				
Chlorofluorocarbon-112(CAS No:000076-12-0)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				
Chlorofluorocarbon-211(CAS No:135401-87-5)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				
Chlorofluorocarbon-212(CAS No:076564-99-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				
Chlorofluorocarbon-213(CAS No:060285-54-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				
Chlorofluorocarbon-214(CAS No:002268-46-4)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				
Chlorofluorocarbon-215(CAS No:000076-17-5)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				
Chlorofluorocarbon-216(CAS No:001652-80-8)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				

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Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Chlorofluorocarbon-217(CAS No:000422-86-6)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
CHC's(Chlorinated hydrocarbon)		With reference to US EPA 8260.						
1,1,1,2-Tetrachloroethane(CAS No.:000630-20-6)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
1,1,1-Trichloroethane(CAS No.:000071-55-6)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
1,1,2,2-Tetrachloroethane(CAS No.:000079-34-5)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
1,1,2-Trichloroethane(CAS No.:000079-00-5)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
1,1-Dichloroethane(CAS No.:000075-35-4)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
1,1-Dichloroethane(CAS No.:000075-35-3)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
1,1-Dichloropropene(CAS No.:000563-58-6)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
1,2,3-Trichloropropane(CAS No.:000096-19-5)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
1,2-Dichloroethane(CAS No.:000107-06-2)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				

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Test Item (s):	Unit	Method	MDL	Result				
				No.1				
1,2-Dichloropropane(CAS No.:000078-87-5)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
1,3-Dichloropropane(CAS No.:000142-28-9)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
2,2-Dichloropropane(CAS No.:000594-20-7)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
Carbon tetrachloride(CAS No.:000056-23-5)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
Chloroethane(CAS No.:000075-00-3)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
Chloroform(CAS No.:000067-66-3)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
Chloromethane(CAS No.:000074-87-3)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
Cis-1,2-Dichloroethene(CAS No.:000156-59-2)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
Cis-1,3-Dichloropropene(CAS No.:010061-01-5)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
Hexachlorobutadiene(CAS No.:000087-68-3)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
Methylene Chloride(CAS No.:000075-09-2)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
Tetrachloroethene(CAS No.:000127-18-4)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				

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Test Item (s):	Unit	Method	MDL	Result				
				No.1				
trans-1,2-Dichloroethene(CAS No.:000156-60-5)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
trans-1,3-Dichloropropene(CAS No.:010061-02-6)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				
Trichloroethylene(CAS No.:000079-01-6)	ppm	Analysis was performed by GC/MS. [CHC's (Chlorinated hydrocarbon)]	1	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Chlorinated Paraffin (C10~C13) (CAS NO:010871-26-2)	%	Analysis was performed by GC/MS.	0.01	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
HCFC's(Hydrogenated chlorofluorocarbons)		With reference to US EPA 8260.						
Hydrochlorofluorocarbon-21(CAS No.:000075-43-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-22(CAS No.:000075-45-6)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-31(CAS No.:000593-70-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-121(CAS No.:000354-14-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				

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Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Hydrochlorofluorocarbon-122(CAS No.:000354-21-2)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-123(CAS No.:000306-83-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-124(CAS No.:002837-89-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-131(CAS No.:000359-28-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-131b(CAS No.:000471-43-2)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-133a(CAS No.:000075-88-7)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-141b(CAS No.:001717-00-6)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-221	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-222(CAS No.:000422-30-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				

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Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Hydrochlorofluorocarbon-223	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-224	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-225ca(CAS No.:000422-56-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-225cb(CAS No.:000507-55-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-226(CAS No.:000431-87-8)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-231	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-232	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-233	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-234	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				

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Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Hydrochlorofluorocarbon-235(CAS No.:013838-16-9)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-241	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-242	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-243(CAS No.:000338-75-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-244	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-251	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-252	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-253(CAS No.:000354-06-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-261(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				

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Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Hydrochlorofluorocarbon-262(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				
Hydrochlorofluorocarbon-271	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Organic-tin compounds								
Triphenyl Tin(TPT)(CAS NO:000668-34-8)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	N.D.				
Tributyl Tin(TBT)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to USEPA 8082A. Analysis was performed by GC/ECD/MS.	0.5	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Polychlorinated Naphthalene	ppm	With reference to UESPA 8081B. Analysis was performed by GC/MS.	5	N.D.				

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Test Item (s):	Unit	Method	MDL	Result				
				No.1				
PBBs(Polybrominated biphenyls)(CAS NO:059536-65-1)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.				
PBBEs(PBDEs)(Polybrominated biphenyl ethers)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
PCTs(Polychlorinated Terphenyls)	ppm	With reference to SGS in-house method. Analysis was performed by GC/ECD/MS.	0.5	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
PVC free(CAS No:9002-86-2)	**	Analysis was performed by FTIR/ATR and Pyro-GC/MS.	-	Negative				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.				

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# Test Report

SHIXING KINGBOARD MANUFACTURING FACTORY  
BAOSHI INDUSTRIAL DISTRICT, SHISHIXIA AREA,  
TAIPING TOWN, SHIXING COUNTRY, SHAOGUAN  
CITY, CHINA

Report No. : CE/2004/C4464

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Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.				
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.				
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.				

- NOTE : (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit  
(4) " - " = No Regulation  
(5) \*\* = Qualitative analysis (No Unit)  
(6) Negative = Undetectable / Positive = Detectable