

Test Report

No. SH6072593/CHEM

Date: Jun. 21, 2006

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SHANGHAI NANYA COPPER CLAD LAMINATE CO., LTD
NO. 158 CHANGXIANG RD. NANXIANG, SHANGHAI

Report on the submitted sample said to be FR-4 CCL

SGS Ref No. : SHEC0060528177

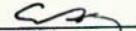
Sample Receiving Date : Jun. 15, 2006
Testing Period : Jun. 15 - 20, 2006

Test Requested : 1) To determine the Cadmium Content in the submitted samples No. 1~No. 2.
2) To determine the Lead Content in the submitted samples No. 1~No. 2.
3) To determine the Mercury Content in the submitted samples No. 1~No. 2.
4) To determine the Hexavalent Chromium Content on the submitted samples No. 1.
5) To determine the Hexavalent Chromium Content on the submitted samples No. 2.
6) To determine the PBBs (Polybrominated biphenyls) PBBEs (PBDEs) (Polybrominated biphenyl ethers) Content of the submitted samples No. 1.

Test Method : 1) With reference to BS EN 1122:2001, Method B, or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
3) With reference to US EPA 3052 or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA 7473 Analysis was performed by Hg Analyzer.
4) With reference to EPA Method 3060A & 7196A. The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.
5) With reference to ISO 3613 : 2000(e). Analysis was performed by UV/VIS Spectrometric method.
6) With reference to USEPA 8081A/8270D/3540C/3550C, Analysis was performed by GC-MS.

Test Results : Please refer to next page

Signed for and on behalf of
SGS-CSTC Chemical Laboratory


Ella Zhang
Sr. Section Head

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No.	Item	Unit	DL	No.2
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	N.D.
3	Mercury (Hg)	mg/kg	2	N.D.
5	Hexavalent Chromium (Cr VI)	µg/cm ²	0.02	N.D.
		mg/kg*	2	N.D.

Sample Appearance Description (Photo see appendix):

No.1 Yellow plastic board
No.2 Copper metal sheet

Note : 1mg/kg=1ppm=0.0001%

DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

*Result shown is of the total weight of sample, and only for reference.

*** End of Report ***

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Test Results

No.	Item	Unit	DL	No.1
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	18
3	Mercury (Hg)	mg/kg	2	N.D.
4	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.
6	Polybrominated biphenyls (PBBs)	—	—	—
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.
	Polybrominated biphenyl ethers (PBDEs)	—	—	—
	Monobromobiphenyl ether	mg/kg	5	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.
	Tribromobiphenyl ether	mg/kg	5	N.D.
	Tetrabromobiphenyl ether	mg/kg	5	N.D.
	Pentabromobiphenyl ether	mg/kg	5	N.D.
	Hexabromobiphenyl ether	mg/kg	5	N.D.
	Heptabromobiphenyl ether	mg/kg	5	N.D.
	Octabromobiphenyl ether	mg/kg	5	N.D.
Nonabromobiphenyl ether	mg/kg	5	N.D.	
Decabromobiphenyl ether	mg/kg	5	N.D.	

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