

DC-402材质清单

部件名称	材质名称	测试机构	测试报告号码	测试报告日期	完成的测试项目						备注
					Pb	Cd	Hg	Cr (VI)	PBB	PBDE	
盖片	PA66	SGS	GZ0703039752/CHEM	2007-3-28	10	N. D	N. D	N. D	N. D	N. D	
底座	PA66	SGS	GZ0703039752/CHEM	2007-3-28	10	N. D	N. D	N. D	N. D	N. D	
端子	C2680	SGS	GZ0612184763/CHEM	2006-12-20	17	N. D	N. D	N. D	/	/	
弹片	SUS301	SGS	GZ0703026301/CHEM	2007-3-9	12	N. D	N. D	N. D	/	/	
镀银	镀银	SGS	GZ0611167565/CHEM	2006-11-17	7	N. D	N. D	N. D	/	/	
色母	色母	SGS	2139447/TY	2007-3-14	N. D	N. D	N. D	N. D	N. D	N. D	

## Test Report

No.: GZ0703039752/CHEM

Date: MAR 28, 2007

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DICGU ELECTRONICS CO.,LTD  
LISHAN SOUTH RD., SHIWAN, BOLUO, HUI ZHOU, GUANG DONG, CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as PA66+15%GF(6410G3 GBK4)  
Client Reference: LOT NO.: G58036

SGS Ref No. : SZ10302154-8.5  
Supplier : NAN YA PLASTICS CORPORATION  
Sample Receiving Date : MAR 22, 2007  
Testing Period : MAR 22, 2007 TO MAR 28, 2007

Test Requested : To determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated Biphenyls) & PBDEs (Polybrominated Diphenylethers) content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV  
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products  
(1) Determination of Cadmium by ICP.  
(2) Determination of Lead by ICP.  
(3) Determination of Mercury by ICP.  
(4) Determination of Hexavalent Chromium by Colorimetric Method.  
(5) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

  
Jiang YongPing, Terry  
Sr. Engineer

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	10	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
<b>Sum of PBBs</b>	(5)	<b>N.D.</b>	<b>-</b>
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
<b>Sum of PBDEs</b>		<b>N.D.</b>	<b>-</b>
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

### Test Part Description:

No.1 White plastic grains

- Note : 1. mg/kg = ppm  
2. N.D. = Not Detected (< MDL)  
3. MDL = Method Detection Limit  
4. "-" = Not regulated

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Sample photo :



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## Test Report

No.: GZ0612184763/CHEM

Date: DEC 20, 2006

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HONG SHENG METAL ELECTRONIC CO., LTD  
BAOLIAN INDUSTRIAL AREA, GAOBU TOWN, DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the applicant as 黄铜 C2680R

SGS Ref No. : GZ10189413EC-4.2  
Sample Receiving Date : DEC 14, 2006  
Testing Period : DEC 14, 2006 TO DEC 20, 2006

Test Requested : To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV  
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products  
(1) Determination of Cadmium by ICP.  
(2) Determination of Lead by ICP.  
(3) Determination of Mercury by ICP.  
(4) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

Jiang YongPing, Terry  
Sr. Engineer



## Test Report

No.: GZ0612184763/CHEM

Date: DEC 20, 2006

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	17	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by Spot test	(4)	Negative	See Note 4

### Test Part Description:

No.1 Brassy metal sheet

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

#### 4. Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

#### Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

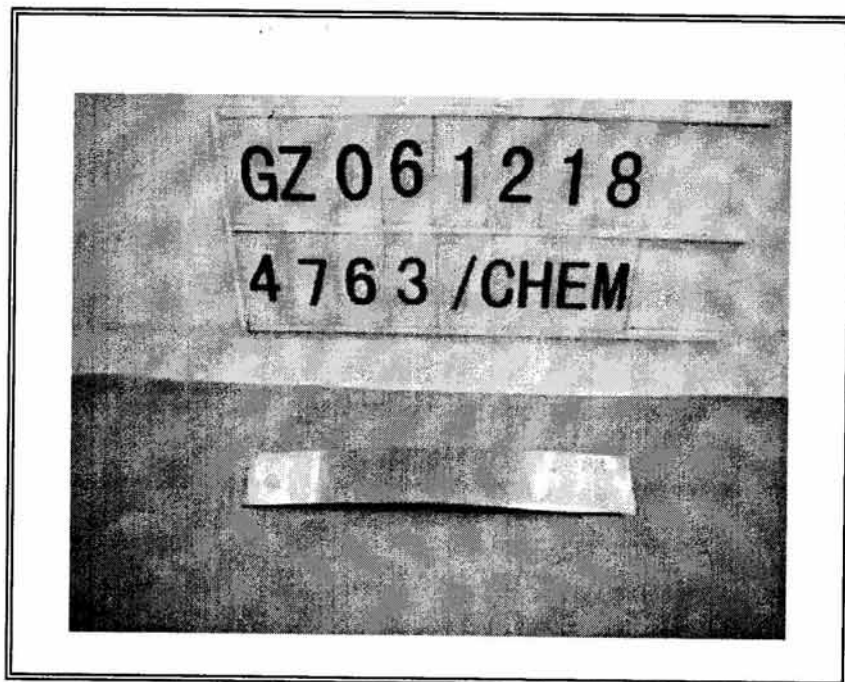
## Test Report

No.: GZ0612184763/CHEM

Date: DEC 20, 2006

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Sample photo :



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## Test Report

No.: GZ0703026301/CHEM

Date: MAR 09, 2007

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XIONGJING METAL MATERIAL PROCESSING FACTORY  
THIRD INDUSTRIAL PARK, CAOBIAN, DAILI TOWN, NANHAI DISTRICT, FOSHAN, GUANGDONG PROVINCE

The following sample(s) was/were submitted and identified on behalf of the applicant as SUS301

SGS Ref No. : GZ10276709EC-6.4  
Sample Receiving Date : MAR 05, 2007  
Testing Period : MAR 05, 2007 TO MAR 09, 2007

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321 Ed.1 111/54/GDV  
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products  
(1) Determination of Cadmium by ICP.  
(2) Determination of Lead by AAS & ICP.  
(3) Determination of Mercury by ICP.  
(4) Determination of Hexavalent Chromium by Colorimetric Method.  
(5) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample(s), the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of  
SGS-CSTC Ltd.

Huang Fang, Sunny  
Sr. Engineer

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## Test Report

No.: GZ0703026301/CHEM

Date: MAR 09, 2007

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL	RoHS Limit
Cadmium (Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	12	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	(4)	Negative	See Note 5	#
<b>Sum of PBBs</b>	(5)	N.D.	-	1000
Monobromobiphenyl		N.D.	5	
Dibromobiphenyl		N.D.	5	
Tribromobiphenyl		N.D.	5	
Tetrabromobiphenyl		N.D.	5	
Pentabromobiphenyl		N.D.	5	
Hexabromobiphenyl		N.D.	5	
Heptabromobiphenyl		N.D.	5	
Octabromobiphenyl		N.D.	5	
Nonabromobiphenyl		N.D.	5	
Decabromobiphenyl		N.D.	5	
<b>Sum of PBDEs (Mono to Nona)(Note 4)</b>		N.D.	-	1000
Monobromodiphenyl ether		N.D.	5	
Dibromodiphenyl ether		N.D.	5	
Tribromodiphenyl ether		N.D.	5	
Tetrabromodiphenyl ether		N.D.	5	
Pentabromodiphenyl ether		N.D.	5	
Hexabromodiphenyl ether		N.D.	5	
Heptabromodiphenyl ether		N.D.	5	
Octabromodiphenyl ether		N.D.	5	
Nonabromodiphenyl ether		N.D.	5	
Decabromodiphenyl ether		N.D.	5	
<b>Sum of PBDEs (Mono to Deca)</b>		N.D.	-	-

### Test Part Description:

No.1 Silver-gray metal board

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Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

5. Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

**Boiling-water-extraction:**

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

6. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.  
Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.
7. "-" = Not regulated

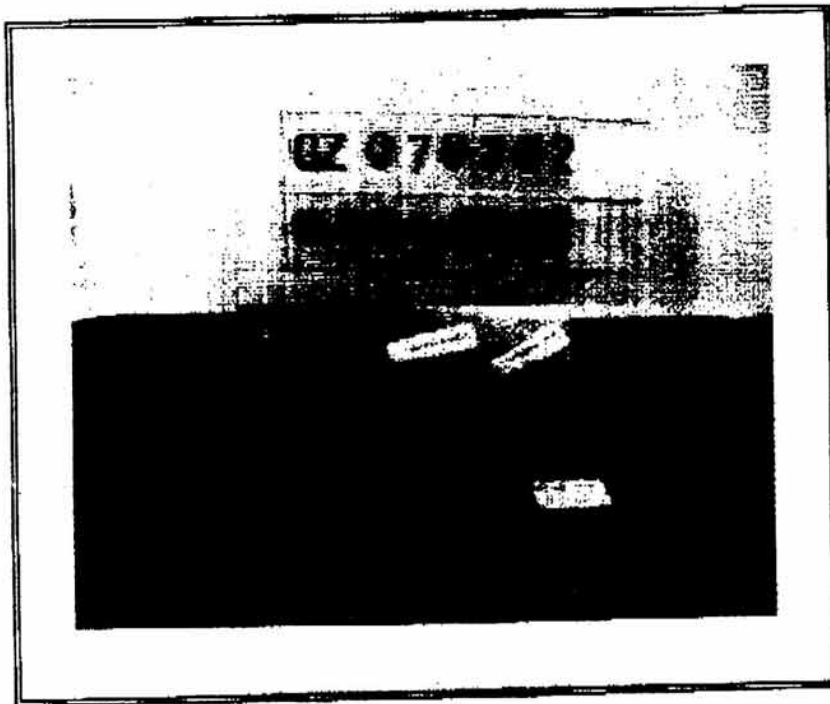
## Test Report

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Date: MAR 09, 2007

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Sample photo :



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## Test Report

No.: GZ0611167565/CHEM

Date: NOV 17, 2006

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TOP-TEAM TECH CO., LTD  
3<sup>RD</sup> INDUSTRIAL PARK, BIN TOUR VILLAGE, SONGGANG, BAOAN DISTRICT, SHENZHEN CHINA

Report on the submitted sample said to be LEAD-FRAME/PLATING

SGS Ref No. : SZ10140182  
Sample Receiving Date : NOV 09, 2006  
Testing Period : NOV 09, 2006 TO NOV 18, 2006

Test Requested : To determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated Biphenyls) & PBDEs (Polybrominated Diphenylethers) content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV  
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products  
(1) Determination of Cadmium by ICP.  
(2) Determination of Lead by ICP.  
(3) Determination of Mercury by ICP.  
(4) Determination of PBBs and PBDEs by GC-MS.

As specified by client, with reference to EPA 3060A: 1996 & EPA 7196A: 1992.  
(5) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

Wang HongLei, Leo  
Sr. Engineer



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## Test Report

No.: GZ0611167565/CHEM

Date: NOV 17, 2006

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	7	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(5)	N.D.	2
<b>Sum of PBBs</b>	(4)	<b>N.D.</b>	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
<b>Sum of PBDEs</b>		<b>N.D.</b>	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

### Test Part Description:

No.1 Silvery metal

Note : 1. mg/kg = ppm

2. N.D. = Not Detected

3. MDL = Method Detection Limit

4. "-" = Not regulated



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**Test Report**

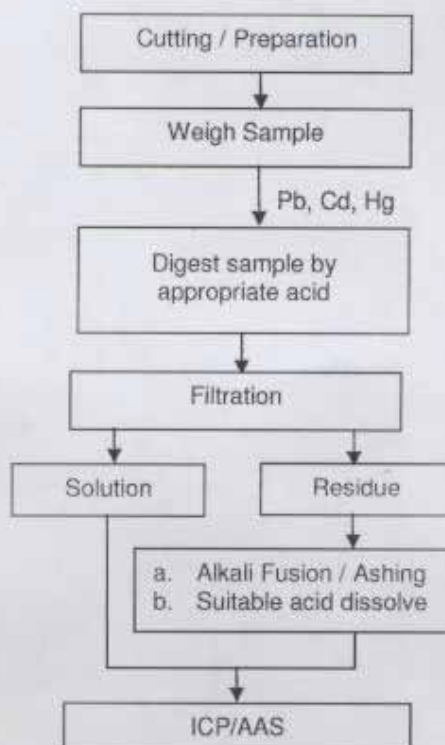
No.: GZ0611167565/CHEM

Date: NOV 17, 2006

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**ATTACHMENTS**

Flow chart of test:



Operator : David Shen  
Leader : Emily Feng



\*\*\* End of Report \*\*\*

## Test Report

No. 2139447/TY

Date : Mar 14 2007

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GOLD MANSION PLASTIC COLOURS LTD  
RM 16, 10/F, FAVOR INDUSTRIAL CENTRE,  
2 - 6 KIN HONG STREET, KWAI CHUNG, N.T., HONG KONG

The following samples were submitted and identified on behalf of the client as BLACK K100, BLACK K200, BLACK K700, BLACK 111, BLACK 112, BLACK 113, BLACK 200, BLACK 8462, 76-0000/000-0, BLACK 228, BLACK 8465, BLACK 8463, BLACK 8466, BLACK116, BLACKPC, BLACK R500, BLACK R600.



SGS Job No. : 2300620  
Sample Receiving Date : MAR 06 2007  
Testing Period : MAR 06-09 2007

Test Requested : With reference to RoHS Directive 2002/95/EC, and its amendment directives.

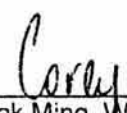
Test Method : With reference to IEC 62321 (Ed. 1) 111/54/CDV  
Procedures for the Determination of Levels of Regulated Substances in  
Electrotechnical Products by Chemical Method

- Determination of Lead & Cadmium by ICP/ AAS
- Determination of Mercury by ICP/ CV-AAS
- Determination of Hexavalent Chromium by Colorimetric Method
- Determination of PBB and PBDE by GC/MS

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample, the result complies with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of  
SGS Hong Kong Ltd.

*for*   
Wong Tak Ming, William  
Operations Manager

## Test Report

No. 2139447/TY

Date : Mar 14 2007

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Test results (Unit: mg/kg) :

	1	MDL	RoHS Limit
Cadmium (Cd)	ND	5	100
Lead (Pb)	ND	5	1000
Mercury (Hg)	ND	5	1000
Hexavalent Chromium (CrVI) by alkaline extraction	ND	5	1000
<b>Polybrominated Biphenyl (PBBs)</b>	< 50	50	1000
Monobromobiphenyl	ND	5	-
Dibromobiphenyl	ND	5	-
Tribromobiphenyl	ND	5	-
Tetrabromobiphenyl	ND	5	-
Pentabromobiphenyl	ND	5	-
Hexabromobiphenyl	ND	5	-
Heptabromobiphenyl	ND	5	-
Octabromobiphenyl	ND	5	-
Nonabromobiphenyl	ND	5	-
Decabromobiphenyl	ND	5	-
<b>Polybrominated Diphenylethers (PBDEs)*</b>	< 45	45	1000
Monobromodiphenyl ether	ND	5	-
Dibromodiphenyl ether	ND	5	-
Tribromodiphenyl ether	ND	5	-
Tetrabromodiphenyl ether	ND	5	-
Pentabromodiphenyl ether	ND	5	-
Hexabromodiphenyl ether	ND	5	-
Heptabromodiphenyl ether	ND	5	-
Octabromodiphenyl ether	ND	5	-
Nonabromodiphenyl ether	ND	5	-
Decabromodiphenyl ether*	ND	5	-
<b>Sum of PBDEs (Mono to Deca)*</b>	< 50	50	-

### Sample Description:

1. Black Powder

### Note :

- (1) mg/kg = ppm
- (2) ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) < = Less Than
- (5) \* = sum of Mono to NonaBDE & according to 2005/717/EC, DecaBDE is exempt.
- (6) - = Not Regulated
- (7) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC.

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