

日期  
DATE 2009/05/15

# 確認書


## CONFIRMATION

客戶名稱  
Customer Name : 台灣安捷倫科技股份有限公司

大衛(大欣)品名  
David(Tdc) Description : TD-XXSG-RO

客戶料號  
Customer Part No. : A02-30-25XXX-X

大衛(大欣)料號  
David(Tdc) Part No. : 1430XXXX

客戶簽章 Authorized Signature	供應商發行章 Vender's Signature
	

☒ 大衛電子股份有限公司  
台北縣汐止市大同路三段 188 號 9F 之二(A 棟)  
9F-2, NO. 188, SEC. 3, TA-TUNG ROAD, HIS-CHIH CITY,  
TAIPEI HSIEN, TAIWAN  
TEL: 886-2-8647-1376 FAX: 886-2-8647-1377  
<http://www.daec.com.tw> E-mail: daec@ms5.hinet.net



☐ 大欣電子五金廠  
T.D.C. ELECTRONIC & METAL FACTORY  
廣東省寶安區松崗鎮潭頭村西部工業園 B4 區  
THE B4 WEST INDUSTRIAL AREA, TAN TOU VILLAGE, SONG  
GANG TOWN, BAOAN DISTRICT, SHEN ZHEN CITY, 518105  
GUANG DONG PROVINCE, CHINA  
TEL: 86-755-2768-2501~3 FAX: 86-755-2768-2505

# Specification List

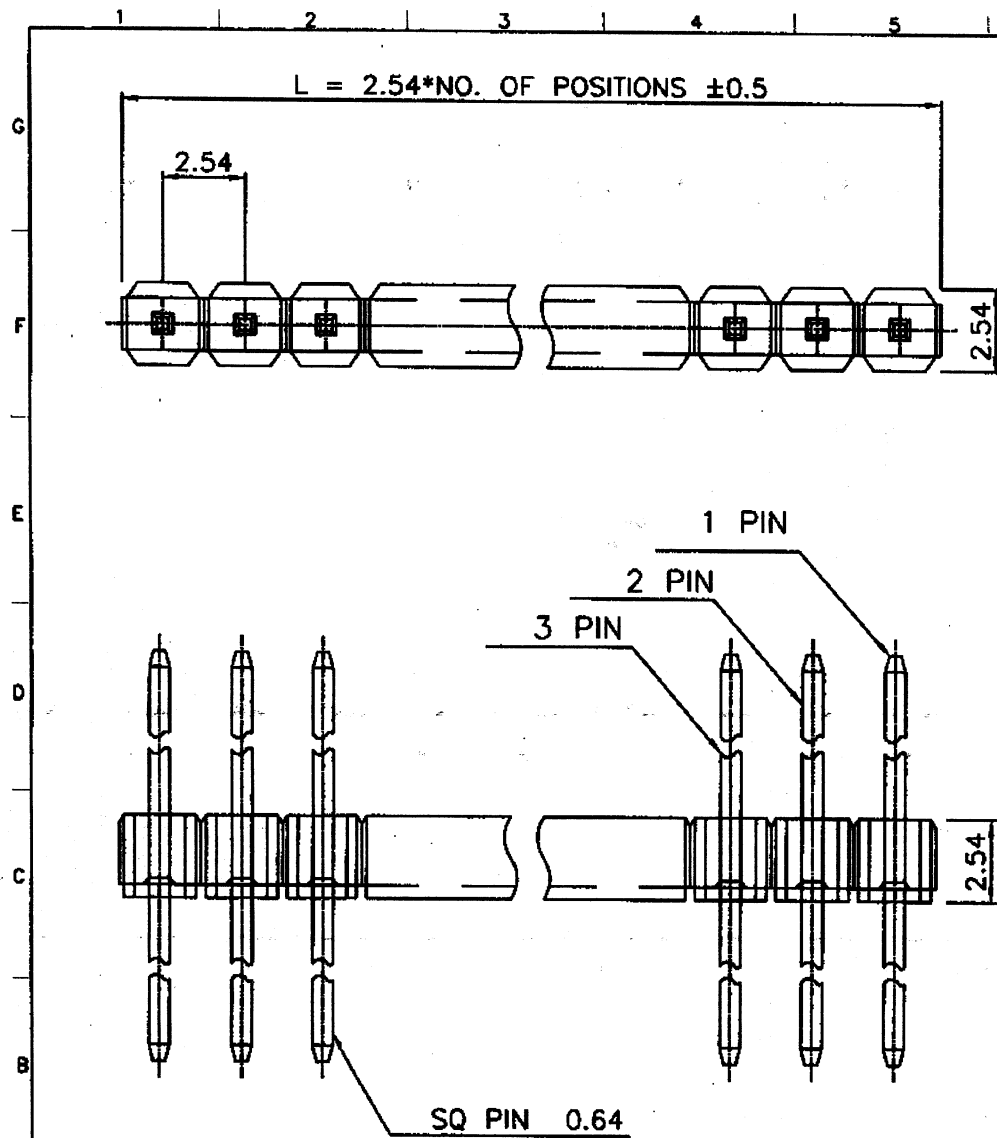
File No: 1430XXXX

Title: TD-XXSX-RO

Edition: A1

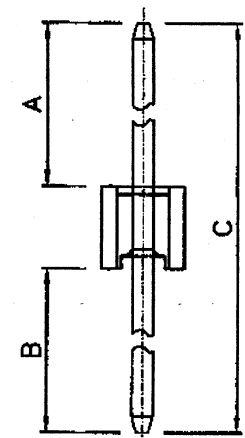
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NOTE	
PLASTIC	
MATERIAL	P.B.T.+GLASS FIBER
CONTACT	
MATERIAL	BRASS
PLATED	GOLD OVER NICKEL OR TIN
NO. OF	01 THRU 40
RECOMMENDED P.C.B. HOLE PATTERN	

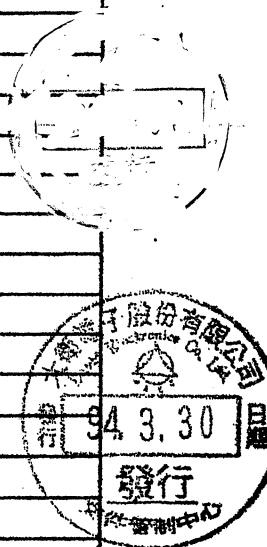
NOTE: RO = ROHS



DRA-0412007		12/09/04			/ /
REV.	DESCRIPTION	DATE	REV.	DESCRIPTION	DATE
1			4		
2			5		
3			6		
7			8		
9			10		

UNLESS OTHERWISE SPECIFIED TOLERANCE		大衛電子股份有限公司 David Electronics Co., Ltd. TEL: 888-02-8847-1370 FAX: 888-02-8847-1377 大欣電子五金廠(深圳) T. D. C. Electronic & Metal Factory TEL: 86-755-2768-2800 FAX: 86-755-2768-2505	
ANG.	±1°	SCALE:	NONE
D.	±0.3	UNIT:	mm
.D	±0.1	DRAWN:	葉玉卿 12/09/04
.00	±0.05	CHECKED:	李正祥 12/09/04
APPROVED: [Signature] 12/09/04		APPLICATION NO.: DRA-0412007	
SIZE A4		DRAWN NAME: TD-XXSX-RO	
REV. A0		PRODUCT NO.: 1430XXXX	
FILE NAME: 2-040-00			

PART NO.	TITLE	A±0.2	B±0.2	C±0.2	L	ECO NO.	REMARK
14303600	TD-03SG-RO	6.0	3.0	11.54	7.62		
14303620	TD-09ST-RO	12.96	3.3	18.80	22.86	ECN-0503011	△ 白塑膠
14303630	TD-02SG-RO	4.0	2.89	9.43	5.08	ECN-0503019	△
14303640	TD-02SG-RO	5.86	3.4	11.80	5.08	ECN-0503019	△
14303650	TD-03SG-RO	1.46	7.8	11.80	7.62	ECN-0503019	△
14303660	TD-03SG-RO	4.0	2.89	9.43	7.62	ECN-0503019	△
14303670	TD-03SG-RO	5.86	3.4	11.80	7.62	ECN-0503019	△
14303680	TD-04SG-RO	1.46	7.8	11.80	10.16	ECN-0503019	△
14303690	TD-04SG-RO	4.0	2.89	9.43	10.16	ECN-0503019	△
14303700	TD-04SG-RO	5.86	3.4	11.80	10.16	ECN-0503019	△
14303710	TD-05SG-RO	1.46	7.8	11.80	12.70	ECN-0503019	△
14303720	TD-05SG-RO	4.0	2.89	9.43	12.70	ECN-0503019	△
14303730	TD-05SG-RO	5.86	3.4	11.80	12.70	ECN-0503019	△
14303740	TD-06SG-RO	4.0	2.89	9.43	15.24	ECN-0503019	△
14303750	TD-07SG-RO	4.0	2.89	9.43	17.78	ECN-0503019	△
14303760	TD-07SG-RO	5.86	3.4	11.80	17.78	ECN-0503019	△
14303770	TD-08SG-RO	4.0	2.89	9.43	20.32	ECN-0503019	△
14303780	TD-09SG-RO	4.0	2.89	9.43	22.86	ECN-0503019	△
14303790	TD-09SG-RO	5.86	3.4	11.80	22.86	ECN-0503019	△
14303800	TD-10SG-RO	5.86	3.4	11.80	25.40	ECN-0503019	△
14303810	TD-11SG-RO	5.86	3.4	11.80	27.94	ECN-0503019	△
14303820	TD-12SG-RO	5.86	3.4	11.80	30.48	ECN-0503019	△
14303830	TD-10SG-RO	4.0	2.89	9.43	25.40	ECN-0503019	△
14303840	TD-13SG-RO	5.86	3.4	11.80	33.02	ECN-0503019	△
14303850	TD-02SG-RO	4.0	5.26	11.80	5.08	ECN-0503019	△

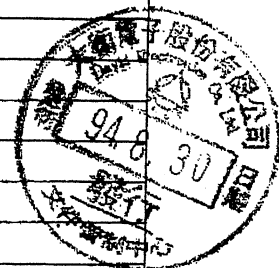


UNLESS OTHERWISE SPECIFIED TOLERANCE ANG. ± 0. ±0.3 .0 ±0.2 .00 ±0.1				大衛電子股份有限公司 David Electronics Co., Ltd. TEL: 886-02-2847-1378 FAX: 886-02-2847-1377 大欣電子五金廠(深圳) D.C. Electronic & Metal Factory TEL: 86-755-2789-2860 FAX: 86-755-2789-2865			
SCALE: NONE		UNIT: mm		APPLICATION NO.: DRA-0412007			
DRAWN: 葉玉卿		3/19/05		DRAWN NAME: TD-XXSX-RO			
CHECKED: 葉玉卿		3/28/05		PRODUCT NO.: 1430XXXX			
APPROVED: 葉玉卿		3/29/05		FILE NAME: 2-040-01			
SIZE A4		REV. A2					

REV.	DESCRIPTION	DATE	REV.	DESCRIPTION	DATE
1	ECN-0503019	03/08/05			
2	ECN-0503011	03/07/05			
3	DRA-0412007	12/09/04			

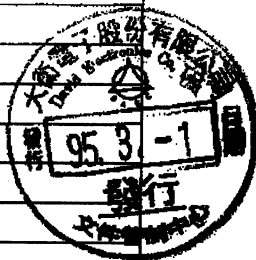


PART. NO.	TITLE	A±0.2	B±0.2	C±0.2	L	ECO NO.	REMARK
14303860	TD-03SG-RO	4.0	5.26	11.80	7.62		
14303870	TD-02SG-RO	7.0	3.4	12.94	5.08		
14303880	TD-02SG-RO	7.6	4.0	△14.14	5.08	ECN-0508154	
14303890	TD-03SG-RO	7.6	4.0	△14.14	7.62	ECN-0508154	
14303900	TD-07SG-RO	11.0	3.4	16.94	17.78		
14303910	TD-04SG-RO	7.6	4.0	△14.14	10.16	ECN-0508154	
14303920	TD-05SG-RO	7.6	4.0	△14.14	12.70	ECN-0508154	
14303930	TD-07SG-RO	9.0	3.4	14.94	17.78		
14303940							
14303950	TD-08SG-RO	4.8	2.6	9.94	20.32	ECN-0503018	△
14303960	TD-05SG-RO	5.86	2.6	11.00	12.70	ECN-0503018	△
14303970	TD-06SG-RO	5.86	2.6	11.00	15.24	ECN-0503018	△
14303980	TD-12SG-RO	5.86	2.6	11.00	30.48	ECN-0503018	△
14303990	TD-15SG-RO	5.86	2.6	11.00	38.10	ECN-0503018	△
14304000	TD-01SG-RO	12.06	2.6	17.20	2.54	ECN-0503018	△
14304010	TD-04SG-RO	7.0	2.6	12.14	10.16	ECN-0503018	△
14304020	TD-07SG-RO	7.0	2.6	12.14	17.78	ECN-0503018	△
14304030	TD-06SG-RO	7.0	2.6	12.14	15.24	ECN-0503018	△
14304040	TD-03SG-RO	4.63	2.6	9.77	7.62	ECN-0503018	△
14304050	TD-12SG-RO	4.63	2.6	9.77	30.48	ECN-0503018	△
14304060	TD-14SG-RO	4.63	2.6	9.77	35.56	ECN-0503018	△
14304070	TD-20SG-RO	4.63	2.6	9.77	50.80	ECN-0503018	△
14304080	TD-05SG-RO	4.63	2.6	9.77	12.70	ECN-0503018	△
14304090	TD-06SG-RO	4.63	2.6	9.77	15.24	ECN-0503018	△
14304100	TD-10SG-RO	7.0	2.6	12.14	25.40	ECN-0503018	△

[illegible]

1 2 3 4 5 6 7 8 9 10

PART NO.	TITLE	A±0.2	B±0.2	C±0.2	L	COLOR	ECO NO.	REMARK
14304110	TD-02SG-RO	4.63	2.6	9.77	5.08	BLACK		
14304120	TD-08SG-RO	8.06	2.6	13.20	20.32	BLACK		
14304130	TD-15SG-RO	4.8	2.6	9.94	38.10	BLACK		
14304140	TD-06SG-RO	4.8	2.6	9.94	15.24	BLACK		
14304150	TD-09ST-RO	10.22	3.16	15.92	22.86	WHITE	ECN-0503052	A1
14304220	TD-12SG-RO	5.0	3.0	10.54	30.48	BLACK	ECN-0505060	A2
14304230	TD-13SG-RO	5.0	3.0	10.54	33.02	BLACK	ECN-0505060	A2
14304240	TD-09SG-RO	5.0	3.0	10.54	22.86	BLACK	ECN-0505060	A2
14304250	TD-07SG-RO	2.89	4.0	9.43	17.78	BLACK	ECN-0505060	A2
14304260	TD-08SG-RO	6.0	2.8	11.34	20.32	BLACK	ECN-0505060	A2
14304310	TD-12SG-RO	7.3	3.4	13.34	30.48	BLACK	ECN-0509011	A3
14304340	TD-02SG-RO	2.50	7.5	12.54	5.08	BLACK	ECN-0510076	A4
14304350	TD-06SG-RO	5.86	3.4	11.80	15.24	BLACK	ECN-0510113	A4
14304360	TD-14SG-RO	5.86	3.4	11.80	35.56	BLACK	ECN-0510113	A4
14304370	TD-08SG-RO	5.86	3.4	11.80	20.32	BLACK	ECN-0510113	A5
14304380	TD-12SG-RO	4.0	2.89	9.43	30.48	BLACK	ECN-0510113	A5
14304390	TD-14SG-RO	4.0	2.89	9.43	35.56	BLACK	ECN-0510113	A5
14304400	TD-02SG-RO	4.63	4.63	11.80	5.08	BLACK	ECN-0512018	A6
14304410	TD-06SG-RO	4.63	4.63	11.80	15.24	BLACK	ECN-0512018	A6
14304420	TD-14SG-RO	4.63	4.63	11.80	35.56	BLACK	ECN-0512018	A6
14304430	TD-03SG-RO	4.63	4.63	11.80	7.62	BLACK	ECN-0512080	A7
14304440	TD-08SG-RO	5.86	2.6	11.0	20.32	BLACK	ECN-0512115	A8
14304450	TD-09SG-RO	1.46	7.8	11.80	22.86	BLACK	ECN-0602083	A9
14304490	TD-02SG-RO	10.0	3.4	15.94	5.08	BLACK	ECN-0602134	B0
14304500	TD-07SG-RO	5.86	2.6	11.0	17.78	BLACK	ECN-0603005	B1



ECN-0512115	12/21/05	ECN-0603005	03/01/06	SCALE: NONE	UNIT: mm	APPLICATION NO.: ECN-0503018
ECN-0512080	12/15/05	ECN-0602134	02/20/06	DRAWN: 葉玉興	3/1/20	DRAWN NAME: TD-XXSX-RO
ECN-0512018	12/11/05	ECN-0602083	02/14/06	CHECKED: 葉玉興	3/1/20	PRODUCT NO.: 1430XXXX
REV.	DESCRIPTION	DATE	REV.	DESCRIPTION	DATE	FILE NAME: 2-040-03

UNLESS OTHERWISE SPECIFIED TOLERANCE

ANG. ±

D. ±

.0 ±

.00 ±

SCALE: NONE

UNIT: mm

DRAWN: 葉玉興

CHECKED: 葉玉興

APPROVED: 葉玉興

SIZE A4

REV. B1

大衛電子股份有限公司  
David Electronics Co., Ltd.  
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大欣電子五金廠(深圳)  
D. C. Electronic & Metal Factory  
TEL: 86-755-2768-2800 FAX: 86-755-2768-2505

PART NO.	TITLE	A±0.2	B±0.2	C±0.2	L	COLOR	ECO NO.	REMARK
14304510	TD-02SG-RO	6.0	3.0	11.54	5.08	BLACK		
14304520	TD-06SG-RO	6.0	3.4	11.94	15.24	BLACK	ECN-0603072	△1
14304530	TD-06SG-RO	6.3	1.8	10.64	15.24	BLACK	ECN-0603075	△2
14304550	TD-03SG-RO	5.86	2.6	11.00	7.62	BLACK	ECN-0603141	△3
14304570	TD-14ST-RO	8.9	3.0	14.44	35.56	BLACK	ECN-0603166	△4
14304580	TD-16ST-RO	15.3	3.0	20.84	40.64	BLACK	ECN-0603166	△4
14304590	TD-13ST-RO	8.9	3.0	14.44	33.02	BLACK	ECN-0603166	△4
14304600	TD-17ST-RO	13.4	3.0	18.94	43.18	BLACK	ECN-0603166	△4
14304610	TD-08SG-RO	12.9	3.0	18.44	20.32	BLACK	ECN-0603166	△4
14304620	TD-12SG-RO	15.3	3.0	20.84	30.48	BLACK	ECN-0603166	△4
14304630	TD-14SG-RO	5.5	3.4	11.44	35.56	BLACK	ECN-0603187	△5
14304650	TD-40SG-RO	5.86	3.4	11.80	101.60	BLACK	ECN-0604063	△6
14304700	TD-12SG-RO	8.06	2.6	13.20	30.48	BLACK	ECN-0604121	△7
14304730	TD-04SG-RO	4.0	3.4	9.94	10.16	BLACK	ECN-0605122	△8
14304810	TD-16SG-RO	3.5	3.4	9.44	40.64	BLACK	ECN-0610019	△9
14304830	TD-04SG-RO	3.1	6.5	12.14	10.16	BLACK	ECN-0610089	△10
14304840	TD-05SG-RO	3.1	6.5	12.14	12.70	BLACK	ECN-0610089	△10
14304860	TD-03SG-RO	3.2	8.0	13.74	7.62	BLACK	ECN-0701084	△11
14304870	TD-05SG-RO	3.2	8.0	13.74	12.70	BLACK	ECN-0701084	△11
14304890	TD-08SG-RO	3.2	8.0	13.74	20.32	BLACK	ECN-0701141	△12
14304900	TD-08SG-RO	6.0	3.0	11.54	20.32	BLACK	ECN-0701171	△13
14304910	TD-05SG-RO	6.0	3.0	11.54	12.70	BLACK	ECN-0701171	△13
14304920	TD-03SG-RO	4.25	4.25	11.04	7.62	BLACK	ECN-0702052	△14
14304930	TD-06SG-RO	4.25	4.25	11.04	15.24	BLACK	ECN-0702052	△14
14304950	TD-11SG-RO	8.06	2.6	13.20	27.94	BLACK	ECN-0703049	△15



UNLESS OTHERWISE SPECIFIED TOLERANCE		大衛電子股份有限公司 David Electronics Co., Ltd. TEL: 886-2-8547-1376 FAX: 886-2-8547-1377 大欣電子五金廠(深圳) T. D. C. Electronic & Metal Factory TEL: 86 755 2768-2800 FAX: 86 755 2768 2500	
ANG.	±	SCALE:	UNIT: mm
0.	±	NONE	APPLICATION NO.: ECN-0603043
.0	±		
.00	±		
DRAWN: 2/13/07		DRAWN NAME: TD-XXSX-RO	
CHECKED: 3/13/07		PRODUCT NO.: 1430XXXX	
APPROVED: 3/13/07		FILE NAME: 2-040-04	
SIZE A4		REV. B5	

△12	ECN-0701141	01/25/'07	△15	ECN-0703049	03/13/'07
△11	ECN-0701084	01/18/'07	△14	ECN-0702052	02/12/'07
△10	ECN-0610089	10/24/'06	△13	ECN-0701171	01/31/'07
REV.	DESCRIPTION	DATE	REV.	DESCRIPTION	DATE





# David Electronics Ltd.

<b>Subject</b>	<b>Products inspection standard</b>	<b>No.</b>	<b>De-N-034-A</b>		
<b>Department</b>	<b>Engineering</b>	<b>Issue date</b>	<b>08/07/'05</b>	<b>Rev.</b>	<b>A3</b>

1. Series name: **TD** mating connector: **TDI/TMI**

2. Scope:

2.1 Application: connector of electronic equipment.

2.2 Operating temperature: -40°C ~ +105°C

3. Appearance, construction, dimension:

3.1 Appearance: the products were examined to verify. that the design, construction material, finish and workmanship.

3.2 Construction, dimension: meet the requirement of the drawings

4. Voltage current rating: AC250V; 3A

5. Electrical:

No	Item	Testing Condition	Standard
5.1	Connact resistance	20 mV max. 50 mA max.	20mΩ max.
5.2	Insulation Resistance	500V DC±10% 1 minute±5 sec.	1000MΩ Min.
5.3	Dielectric Strength	60HZ OR 50HZ 500V AC rms 1 minute	Leakage current 3 mA max.
5.4	Remark		

6. Mechanical:

No	Item	Testing Condition	Standard
6.1	Solderability test	230°C±5°C, 2 sec ±0.5 sec	Tined over 90%
6.2	Inser/separation force	Male and female mating.	0.637Kg Max/0.50Kg Min.
6.3	Pin holding force	Pin & body holding force.	500gMin.
6.4	P.C.B.mating	Vertical mating dip side & P.C.B.	Mating good
6.5	Environmental	Temperature 40°C, humidity 90%, 40 hr	Electrical tests ok
6.6	Resistance to soldering heat	Specimen shall be mounted on PCB Solder temperature: 230°C±5°C, Immersion period: 5±0.5 sec	No damage and deformation

<b>Approved</b>	<b>Zhong Li</b>	<b>Check</b>	<b>Ding You Xie</b>	<b>Handler</b>	<b>Jack</b>
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To: H'S

QMFZ2 Component - Plastics			Friday, October 24, 2003					E107536	
SHINKONG SYNTHETIC FIBERS CORP 223 YEN PING RD SEC 3 PIN CHENG TAO YUAN HSIEN TAIWAN									
Material Designation: D202G30@									
Product Description: Polybutylene Terephthalate (PBT), glass reinforced, furnished as pellets.									
Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
NC, BK	0.3	V-0	4	0	75	75	75	-	-
ALL	0.71	V-0	3	0	140	120	140	-	-
	1.5	V-0	2	0	140	130	140	-	-
	3.0	V-0	0	0	140	130	140	-	-
CTI: 3	IEC CTI: -	HVTR: 4		D495: 6		IEC Ball Pressure (C): 200			
Dielectric Strength (kV/mm): -		Volume Resistivity (10 <sup>9</sup> ohm-cm): -				Dimensional Stability (%): -			
ISO Tensile Strength (MPa): -		ISO Flexural Strength (MPa): -				ISO Heat Deflection (C): -			
ISO Tensile Impact (kJ/m <sup>2</sup> ): -		ISO Izod Impact (kJ/m <sup>2</sup> ): -				ISO Charpy Impact (kJ/m <sup>2</sup> ): -			
@	Ball pressure temperature of 200 deg. C, tested in accordance with IEC 695.10.2 and IEC 950 5.4.2								
Report Date: 7/13/1987			Underwriters Laboratories Inc®						
UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULL.									

**SHINITE** **PBT****ENGINEERING PLASTIC DIVISION****SHINKONG SYNTHETIC FIBERS CORPORATION****新 光 合 成 纖 維 股 份 有 限 公 司**

8th Fl., 123, Sec.2, Nanking East Road, Taipei, Taiwan

Tel : 886-2-2507-0131 886-2-2507-1251(30Lines) 886-3-4932131-1730

Fax : 886-2-2506-8047 886-3-491-5763

**Technical Data****SHINITE**   
**D202G30BK**

FR/GF Grade / 防火 / 玻纖強化級 : DF4886

		Unit	Test Method		Values
Mechanical properties	機械性質				
Izod Impact(Notched)	衝擊強度	Kg-cm/cm	ASTM	D256	8.3
Tensile Strength	拉伸強度	Kg/cm <sup>2</sup>	ASTM	D638	1170
Elongation	拉伸率	%	ASTM	D638	2.7
Flexural Strength	彎曲強度	Kg/cm <sup>2</sup>	ASTM	D790	1800
Flexural Modulus	彎曲模數	Kg/cm <sup>2</sup>	ASTM	D790	88000
Rockwell Hardness	洛式硬度	R	ASTM	D785	120
Thermal properties	熱 性 質				
Heat Deflection Temperature	熱變形溫度		ASTM	D648	
66psi		°C			-
264psi		°C			207
Flammability	防火性	-	UL94		V0
Melting Point	熔點	°C	DSC		223
Electrical properties	電氣性質				
Dielectric Strength	介電強度	KV/MM	ASTM	D149	20
Dielectric Constant	介電常數	...	ASTM	D150	4
Volume Resistivity	體積電阻	Ω-CM	ASTM	D257	1.00E+16
Other properties	其它性質				
Specific Gravity	比重	-	ASTM	D792	1.60
Water Absorption	吸水率	%	ASTM	D570	0.07
Mold Shrinkage	成形收縮率		ASTM	D955	
Flow	流動方向	%			0.2~0.4
Cross Flow	垂直方向	%			0.5~0.9

UL file number : E107536

"Nothing in this information shall be construed as a recommendation for any use that may infringe on any patent right or as an endorsement of any material supplied by Shinkong Synthetic Fibers Corporation. We do not guarantee the applicability or the accuracy of this information or the performance of our products in any specific situation. We recommend each user of our products make its own tests to determine if the material is suitable for a particular use. The data show here are within the normal range of product properties, but they are NOT SPECIFICATION LIMITS. Additives of any kind alter some or all of the properties."

# Test Report

No. : CE/2008/A7333A

Date : 2008/11/26

Page : 1 of 5

SHINKONG SYNTHETIC FIBERS CORPORATION  
 8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI, TAIWAN  
 TEL:+886-3-4932131 EXT 1732  
 FAX:+886-3-4915763



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : THERMOPLASTIC POLYESTER RESIN  
 Style/Item No. : SHINITE ® PBT D202G30BK  
 Manufacturer/Vendor : SHINKONG SYNTHETIC FIBERS CORPORATION  
 Country of Origin : TAIWAN  
 Sample Receiving Date : 2008/10/31  
 Testing Period : 2008/10/31 TO 2008/11/5 AND 2008/11/24 TO 2008/11/26

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

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV)  
 Procedures for the Determination of Levels of Regulated Substances in  
 Electrotechnical Products.

- (1) Determination of Cadmium by ICP-AES.
- (2) Determination of Lead by ICP-AES.
- (3) Determination of Mercury by ICP-AES.
- (4) Determination of Hexavalent Chromium for non-metallic samples  
by UV/Vis Spectrometry.
- (5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

\* This report is added testing and combined with CE/2008/A7333 \*

Chenyu Kung / Operation Manager  
 Signed for and on behalf of  
 SGS TAIWAN LTD.  
 Chemical Laboratory – Taipei

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## Test Report

No. : CE/2008/A7333A

Date : 2008/11/26

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SHINKONG SYNTHETIC FIBERS CORPORATION  
 8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI, TAIWAN  
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 FAX:+886-3-4915763



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

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	9	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
<b>Sum of PBBs</b>	(5)	n.d.	-
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>		n.d.	-
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 : BLACK PLASTIC PELLETS

- Note : 1. mg/kg = ppm; 0.1wt% = 1000ppm  
 2. n.d. = Not Detected  
 3. MDL = Method Detection Limit  
 4. "-" = Not Regulated

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# Test Report

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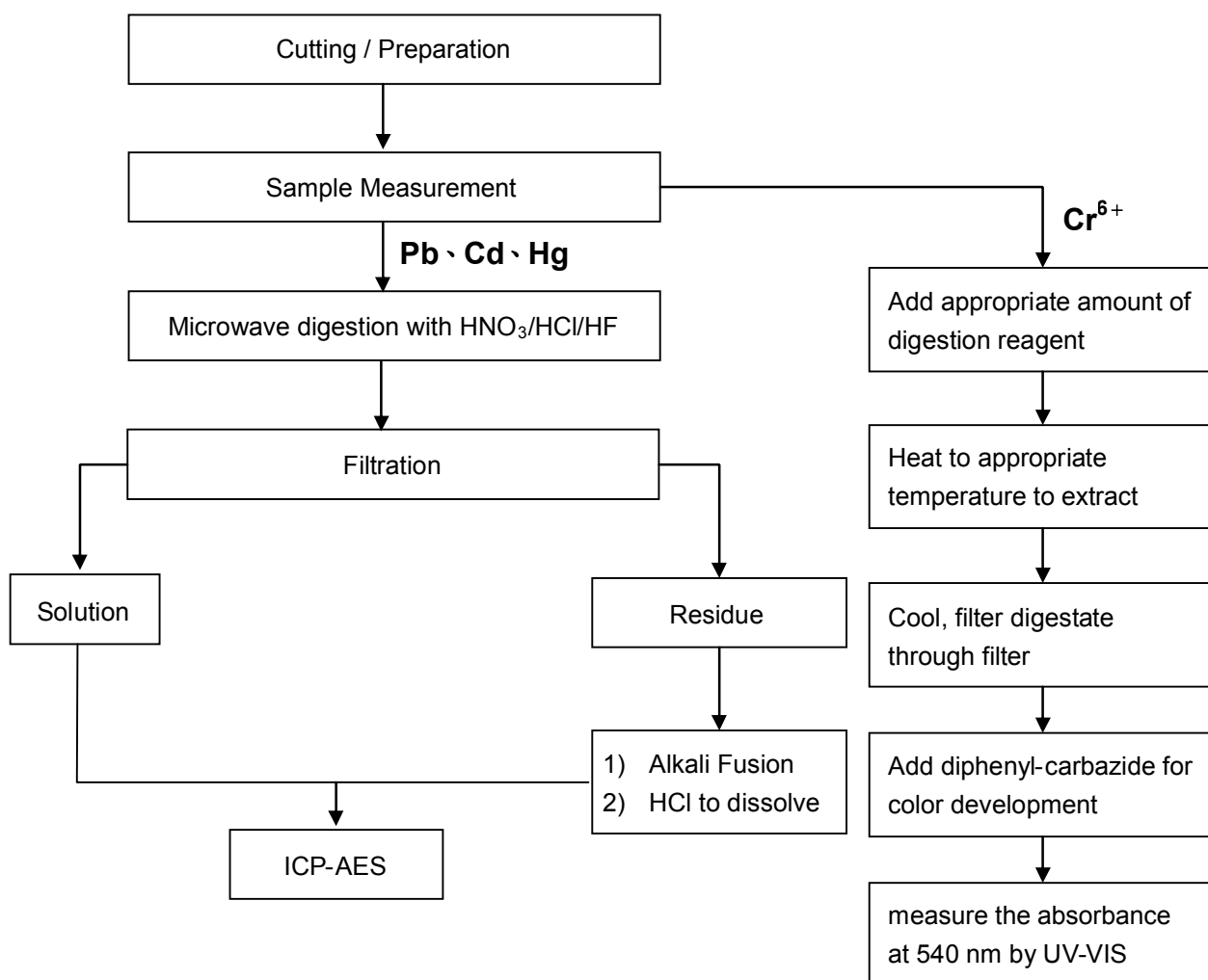
Date : 2008/11/26

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SHINKONG SYNTHETIC FIBERS CORPORATION  
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TEL:+886-3-4932131 EXT 1732  
FAX:+886-3-4915763



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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# Test Report

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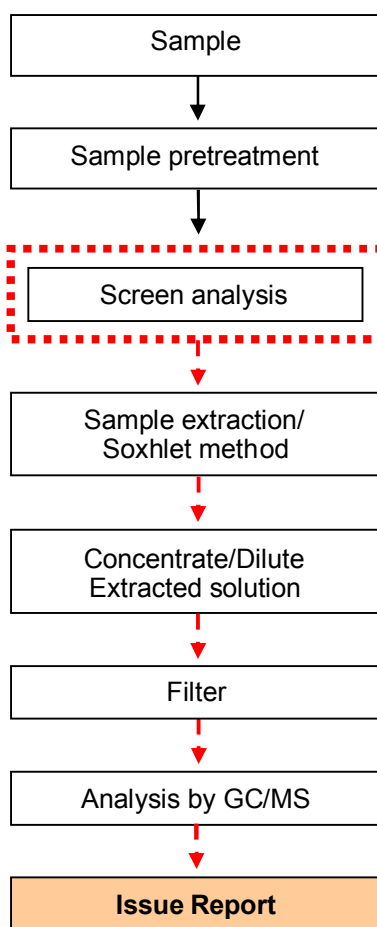
## PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen

First testing process →

Optional screen process .....&gt;

Confirmation process - -&gt;



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\*\* End of Report \*\*

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# 材質證明書

## CERTIFICATE OF ANALYSIS



元祥金屬工業股份有限公司  
YUANG-HSIAN METAL INDUSTRIAL CORP.

彰化市50042彰水路175號  
175, CHANG SHOEI ROAD, CHANG HUA TAIWAN R.O.C.  
TEL: (04) 7524626-8 FAX: 886-4-7611717

客戶名稱 (Customer)	金士寶電子元件廠	客戶編號Customer No.	TP1001	日期Date	May 14, 2007
		訂單編號Order No.		編號Certificate No.	YHM07051401
材質編號Specification	JIS H3260 C2600W(70/30)	發票號碼Invoice No.	TP1001-0514	交運日期Shipping date	May 15, 2007
尺寸Size	1.10mm Dia.	檢驗Inspection	Yuang Hsian mill inspection(chemical by X-ray/mechanical by computer universal		

			化學成分%(Chemical Composition%)						機械性質(Mechanical Properties)				備註 Remark
項目 Item No.	尺寸(mm) Size	重量 (kg)	銅 Cu	鋅 Zn	鉛 Pb	鐵 Fe	磷 P	其他 Others	降伏點 Y. S. P. kg/mm <sup>2</sup>	抗拉強度 T. S. kg/mm <sup>2</sup>	延伸率 Elongation %	硬度 Hardness HRB	
規格值(Requirement)			68.5~71.5	Rem	0.05 Max.	0.05 Max.	—			Min. 28.06	Min. 20		
1	1.10mm Dia.	14,715.8	69.50	30.48	0.00	0.00		0.02		36.2	48.8		

茲證明本表所列產品, 均依材料規格製造及試驗, 並符合規格之要求。

We hereby certify that the above results are true and correct in every detail.

備考 Remarks:

審核

張國桐

Surveyor:

## Test Report

No. CANEC0803403501

Date: 02 Jul 2008

Page 1 of 3

DONGGUAN GOLDSBO ELECTRON PARTS COMPANY LIMITED  
LIN-HERN INDUSTRIAL AREA IN QING-XI TOWN OF DONG-GUAN CITY, GUANG-DONG  
CHINA

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

黄铜 W08062401 C2600

SGS Job No. : 11120880 - SZ  
Date of Sample Received : 27 Jun 2008  
Testing Period : 27 Jun 2008 - 02 Jul 2008  
  
Test Requested : Selected test(s) as requested by client.  
  
Test Method : Please refer to next page(s).  
  
Test Results : Please refer to next page(s).  
  
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. CANEC0803403501

Date: 02 Jul 2008

Page 2 of 3

## Test Results:

ID for specimen 1 : CAN08-034035.001  
Description for specimen 1 : Brassy metal wire

## RoHS Directive 2002/95/EC

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium (Cd)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	100
Lead (Pb)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	-	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	Negative	◇	#

## 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 is negative or 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.

5. # = Positive indicates the presence of CrVI on the tested areas.

Negative indicates the absence of CrVI on the tested areas.

6. "- " = Not regulated

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## Test Report

No. CANEC0803403501

Date: 02 Jul 2008

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Sample photo:



SGS authenticate the photo on original report only

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

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# Test Report

**Report No.** RLSZA000110890016

Page 1 of 4

**Applicant** DONGGUAN DONGXU METAL SURFACE HANDLE CO.,LTD

**Address** LU DONG INDUSTRY DISTRICT, HUMEN TOWN ,DONGGUAN CITY,  
GUANGDONG,CHINA

## Report on the submitted sample(s) said to be

**Sample Name** 金电镀液  
**Sample Description** Peach-red liquid  
**Sample Received Date** Dec. 22, 2008  
**Testing Period** Dec. 22, 2008 to Dec. 29, 2008

**Test Requested** As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr<sup>6+</sup>), Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA) content in the submitted sample.

## Test Method

Test Item(s)	Pretreatment Method	Measured Equipment(s)	Report Limit
Lead(Pb)	Refer to IEC 62321 111/95/CDV Ed.1 Sec.10	ICP-AES	2ppm
Cadmium(Cd)	Refer to IEC 62321 111/95/CDV Ed.1 Sec.10	ICP-AES	2ppm
Mercury(Hg)	Refer to IEC 62321 111/95/CDV Ed.1 Sec.7	ICP-AES	2ppm
Hexavalent Chromium(Cr <sup>6+</sup> )	Refer to IEC 62321 111/95/CDV Annex C	UV-Vis	2ppm
Perfluorooctane Sulfonates(PFOS)	Refer to US EPA 3550C:2007	LC-MS-MS	5ppm
Perfluorooctanoic Acid(PFOA)	Refer to US EPA 3550C:2007	LC-MS-MS	5ppm

**Test Result(s)** Please refer to the following page(s).

**Tested by**



**Approved by**

Technical Manager

**Inspected by**



**Date**

Dec. 29, 2008

No. 21406902

# Test Report

Report No. RLSZA000110890016

Page 2 of 4

## Test Result(s)

Test Item(s)	Content
Lead(Pb)	N.D.
Cadmium (Cd)	N.D.
Mercury(Hg)	N.D.
Hexavalent Chromium (Cr <sup>6+</sup> )	N.D.

Test Item(s)	Content
Perfluorooctanoic Acid (PFOA)	N.D.
Perfluorooctane Sulfonates(PFOS)	N.D.

**Note:** -N.D. = Not Detected (<Report Limit )  
-ppm = mg/kg = parts per million

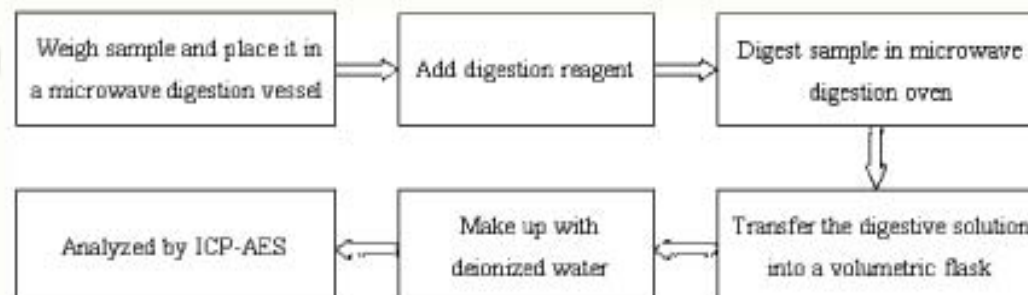
# Test Report

Report No. RLSZA000110890016

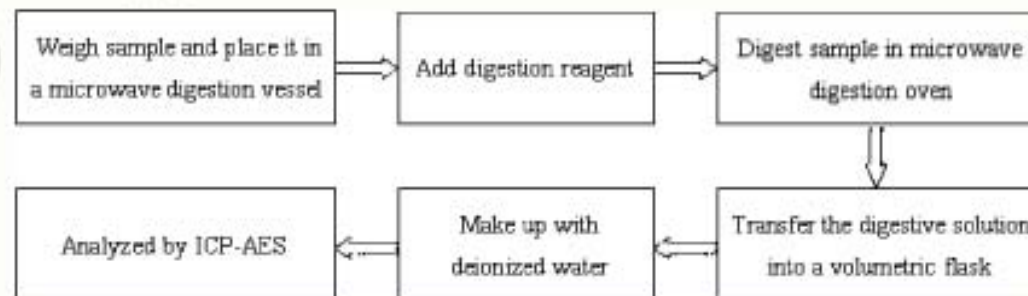
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## Test Process

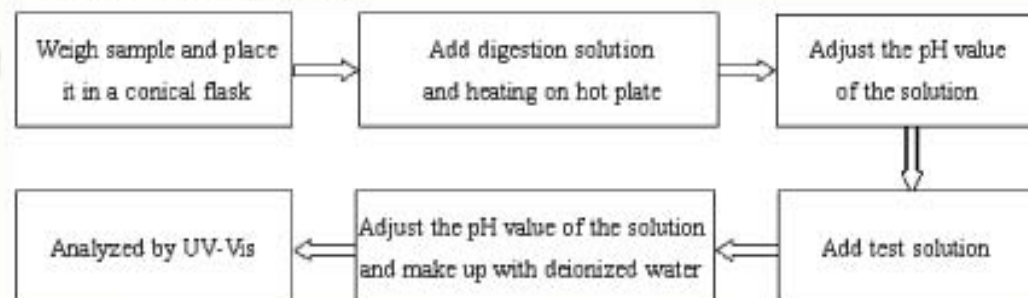
### 1. Lead(Pb), Cadmium(Cd)



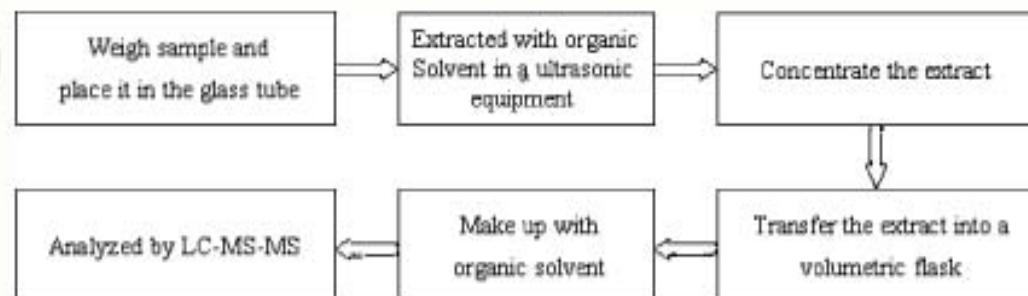
### 2. Mercury(Hg)



### 3. Hexavalent Chromium(Cr<sup>6+</sup>)



### 4. Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS)



## Test Report

Report No. RLSZA000110890016

Page 4 of 4

### Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

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Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen



## Test Report



Report No. RLSZA000110890019

Page 1 of 4

Applicant DONGGUAN DONGXU METAL SURFACE HANDLE CO.;LTD

Address LU DONG INDUSTRY DISTRICT, HUMEN TOWN, DONGGUAN CITY,  
GUANGDONG, CHINA

## Report on the submitted sample(s) said to be

Sample Name 镍电镀液

Sample Description Green liquid

Sample Received Date Dec. 22, 2008

Testing Period Dec. 22, 2008 to Dec. 29, 2008

**Test Requested** As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr<sup>6+</sup>), Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA) content in the submitted sample.

## Test Method

Test Item(s)	Pretreatment Method	Measured Equipment(s)	Report Limit
Lead(Pb)	Refer to IEC 62321 111/95/CDV Ed.1 Sec.10	ICP-AES	2ppm
Cadmium(Cd)	Refer to IEC 62321 111/95/CDV Ed.1 Sec.10	ICP-AES	2ppm
Mercury(Hg)	Refer to IEC 62321 111/95/CDV Ed.1 Sec.7	ICP-AES	2ppm
Hexavalent Chromium(Cr <sup>6+</sup> )	Refer to IEC 62321 111/95/CDV Annex C	UV-Vis	2ppm
Perfluorooctane Sulfonates(PFOS)	Refer to US EPA 3550C/2007	LC-MS-MS	5ppm
Perfluorooctanoic Acid(PFOA)	Refer to US EPA 3550C/2007	LC-MS-MS	5ppm

Test Result(s) Please refer to the following page(s).

Tested by



Approved by

Technical Manager

Inspected by

Date

Dec. 29, 2008

No. 21406902



# Test Report



Report No. RLSZA000110890019

Page 2 of 4

## Test Result(s)

Test Item(s)	Content
Lead(Pb)	N.D.
Cadmium (Cd)	N.D.
Mercury(Hg)	N.D.
Hexavalent Chromium (Cr <sup>6+</sup> )	N.D.
Test Item(s)	Content
Perfluorooctanoic Acid (PFOA)	N.D.
Perfluorooctane Sulfonates(PFOS)	N.D.

Note: -N.D. = Not Detected (<Report Limit )  
-ppm = mg/kg = parts per million





# Test Report

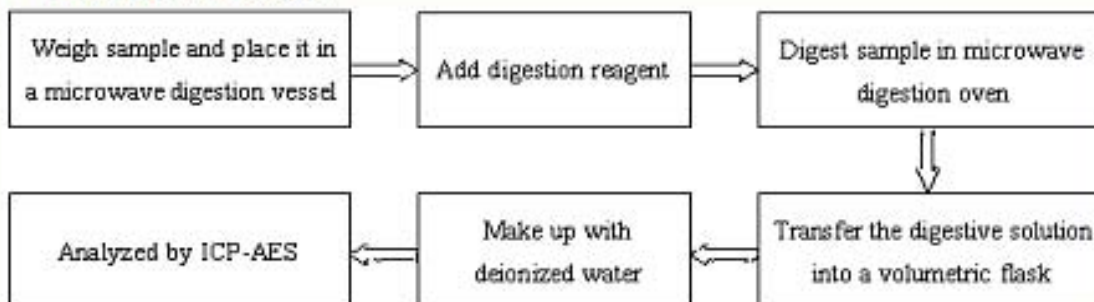


Report No. RLSZA000110890019

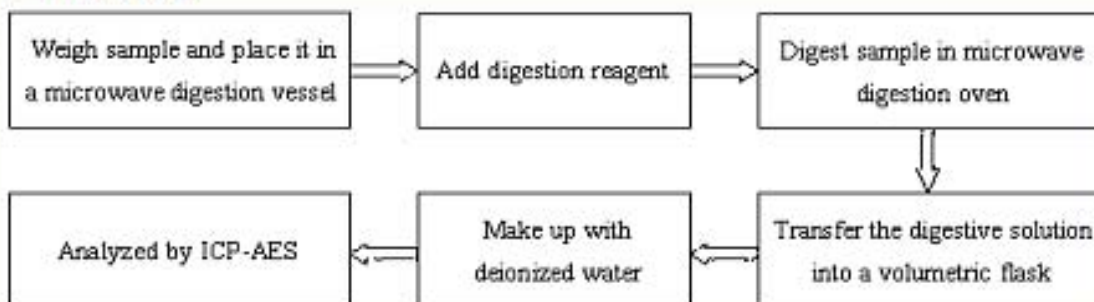
Page 3 of 4

## Test Process

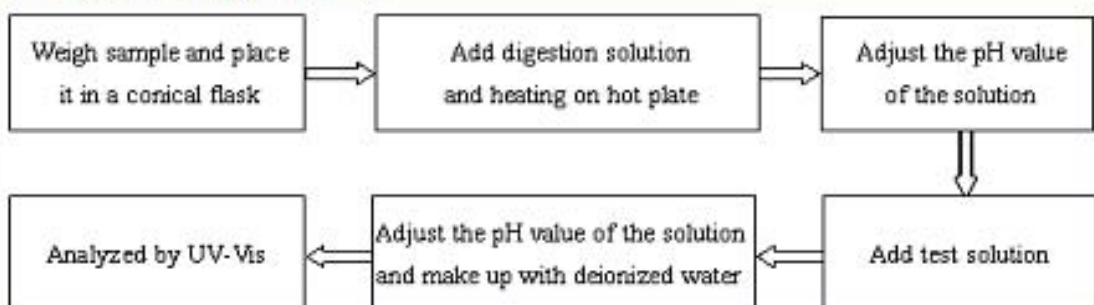
### 1. Lead(Pb), Cadmium(Cd)



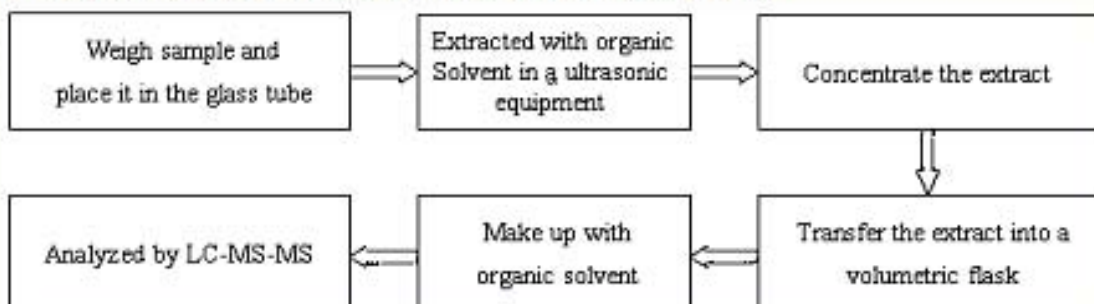
### 2. Mercury(Hg)



### 3. Hexavalent Chromium(Cr<sup>6+</sup>)



### 4. Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS)

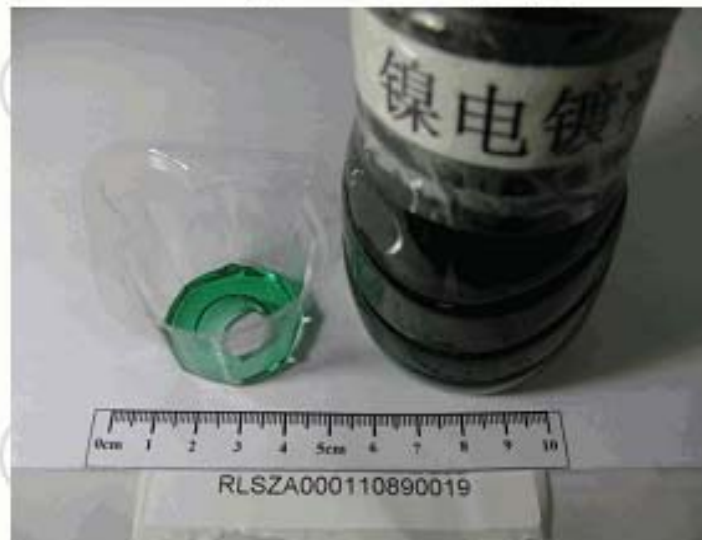


# Test Report

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## Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

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# Test Report

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Applicant DONGGUAN DONGXU METAL SURFACE HANDLE CO.,LTD

Address LU DONG INDUSTRY DISTRICT, HUMEN TOWN ,DONGGUAN CITY,  
GUANGDONG,CHINA

Report on the submitted sample(s) said to be

Sample Name 光亮钝锡电镀液

Sample Description Light yellow liquid

Sample Received Date Dec. 22, 2008

Testing Period Dec. 22, 2008 to Dec. 29, 2008

Test Requested As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr<sup>6+</sup>), Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA) content in the submitted sample.

## Test Method

Test Item(s)	Pretreatment Method	Measured Equipment(s)	Report Limit
Lead(Pb)	Refer to IEC 62321 111/95/CDV Ed.1 Sec.10	ICP-AES	2ppm
Cadmium(Cd)	Refer to IEC 62321 111/95/CDV Ed.1 Sec.10	ICP-AES	2ppm
Mercury(Hg)	Refer to IEC 62321 111/95/CDV Ed.1 Sec.7	ICP-AES	2ppm
Hexavalent Chromium(Cr <sup>6+</sup> )	Refer to IEC 62321 111/95/CDV Annex C	UV-Vis	2ppm
Perfluorooctane Sulfonates(PFOS)	Refer to US EPA 3550C:2007	LC-MS-MS	5ppm
Perfluorooctanoic Acid(PFOA)	Refer to US EPA 3550C:2007	LC-MS-MS	5ppm

Test Result(s) Please refer to the following page(s).

Tested by



Approved by

Technical Manager

Inspected by



Date

Dec. 29, 2008

No. 21406902



# Test Report

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## Test Result(s)

Test Item(s)	Content
Lead(Pb)	N.D.
Cadmium (Cd)	N.D.
Mercury(Hg)	N.D.
Hexavalent Chromium (Cr <sup>6+</sup> )	N.D.
Test Item(s)	Content
Perfluorooctanoic Acid (PFOA)	N.D.
Perfluorooctane Sulfonates(PFOS)	N.D.

Note: -N.D. = Not Detected (<Report Limit )  
 -ppm = mg/kg = parts per million

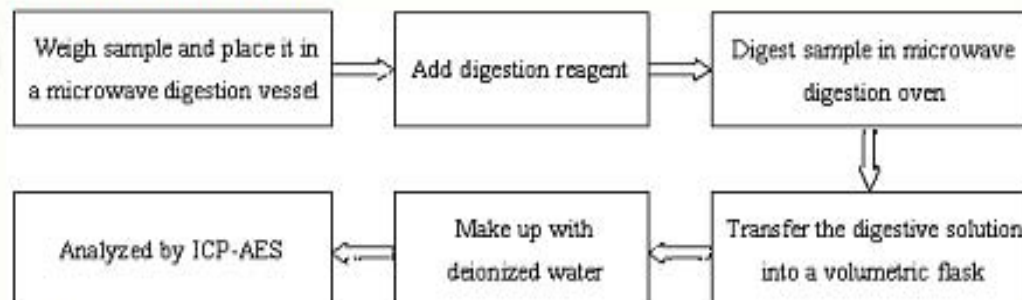
# Test Report

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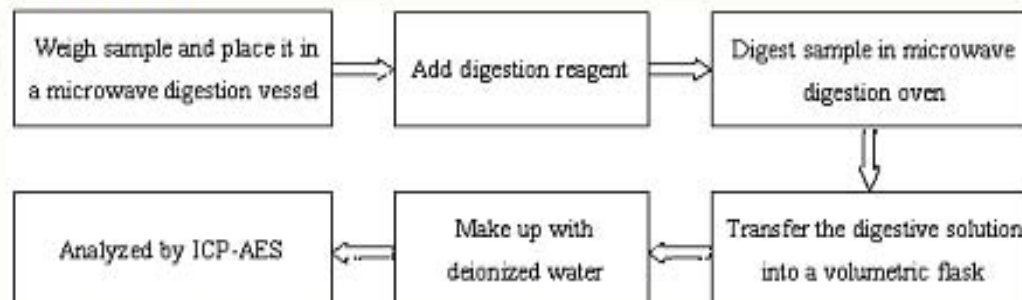
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## Test Process

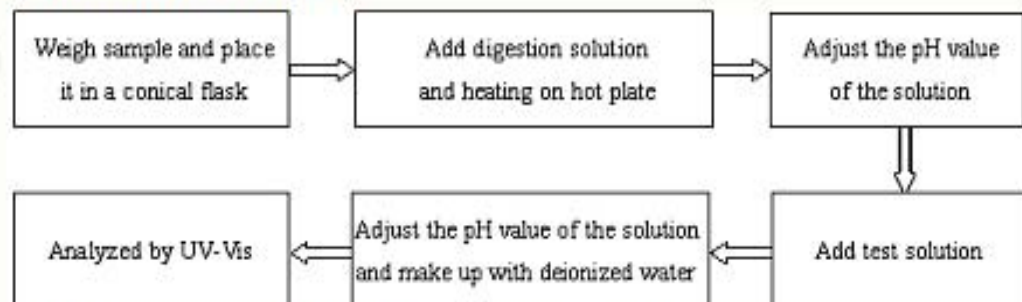
### 1. Lead(Pb), Cadmium(Cd)



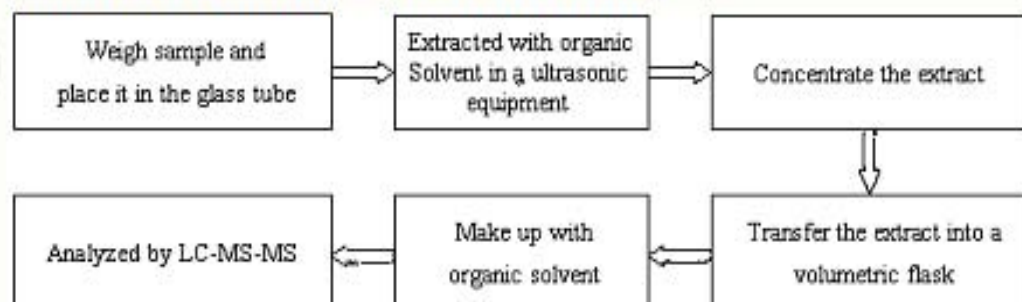
### 2. Mercury(Hg)



### 3. Hexavalent Chromium(Cr<sup>6+</sup>)



### 4. Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS)

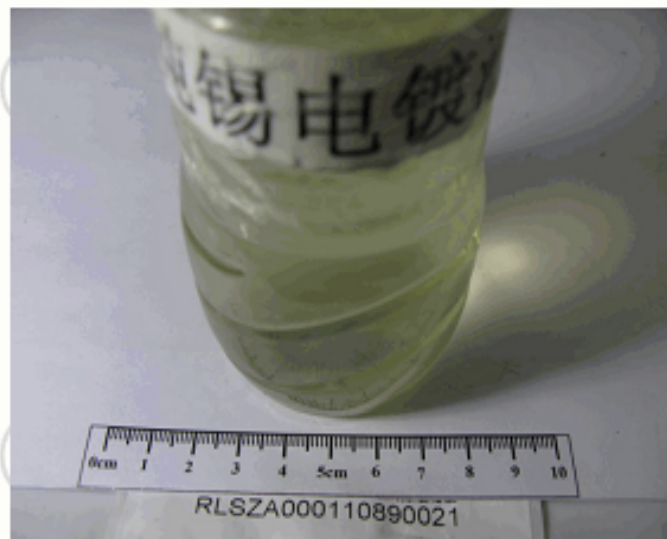


## Test Report

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Photo(s) of the sample(s)



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記事欄

## NOTE

[illegible]