

日期
DATE 94/03/03

確認書

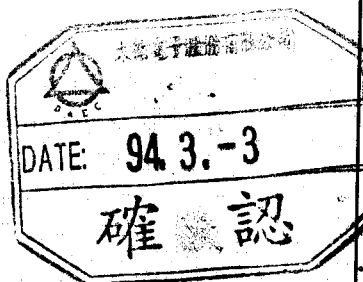
CONFIRMATION

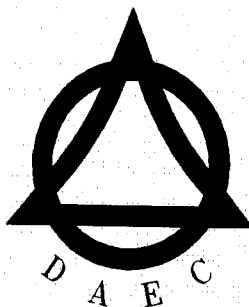
客戶名稱
Customer Name : 威華電子股份有限公司

大衛(大欣)品名
David(Tdc) Description : TS-(03-01)LG-RO 3.9/2.8 空2

客戶料號
Customer Part No. :

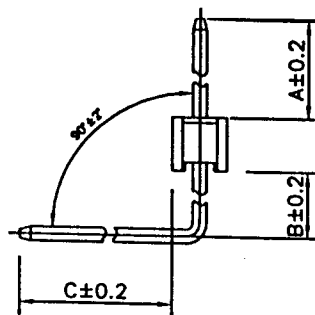
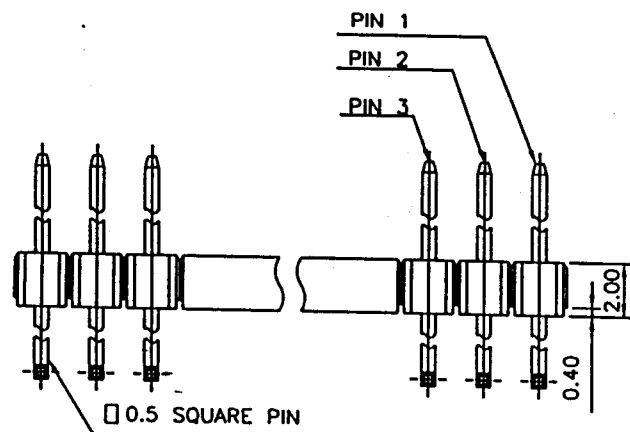
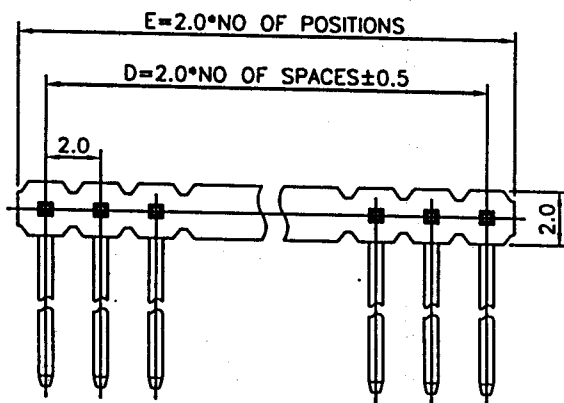
大衛(大欣)料號
David(Tdc) Part No. : 15100140

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



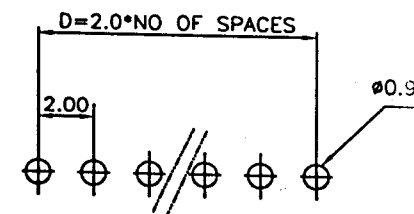
☐ 大衛電子股份有限公司
台北縣汐止市大同路三段 192 號 8F 之一(A 棟)
8F-1, NO. 192, SEC. 3, TA-TUNG ROAD, HIS-CHIH CITY,
TAIPEI HSIEN, TAIWAN
TEL: 886-2-8647-1376 FAX: 886-2-8647-1377
<http://www.daec.com.tw> E-mail: daec@ms5.hinet.net

☐ 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區 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

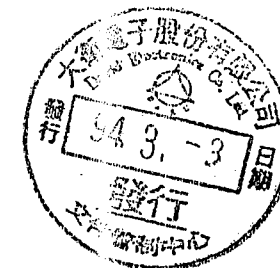


Material and Finish:

1. Insulator Material: Nylon-6T
2. Contact Material: BRASS
3. Contact Plated: Gold Over Nickel or Tin.
4. Operation Temperature: -40°C~+105°C
5. RO = ROHS



RECOMMENDED P.C.B. LAYOUT



PART NO.	TITLE	A	B	C	D	E	EMPTY
15100140	TS-(03-01)LG-RO	3.9	1.0	2.8	4.0	6.60	2

ECN-502049		03/01/05			
DESCRIPTION	DATE	REV.	DESCRIPTION	DATE	
1	2	3	4	5	6
7	8	9	10		

UNLESS OTHERWISE SPECIFIED TOLERANCE ANG. ±5 .0 ±0.5 .00 ±0.3 .000 ±0.2		大衛電子股份有限公司 David Electronics Co., Ltd. TEL: 886-02-8847-1373 FAX: 886-02-8847-1377 大欣電子五金廠(深圳) T. D. C. Electronic & Metal Factory TEL: 86-755-2768-2880 FAX: 86-755-2768-2505	
SCALE: NONE	UNIT: mm	APPLICATION NO.: ECN-0502049	
DRAWN: [Signature]	03/01/05	DRAWN NAME:	
CHECKED: [Signature]	2/2/05	TS-(XX-XX)LG-RO	
APPROVED: [Signature]	3/2/05	PRODUCT NO.: 1510XXXX	
SIZE A4	REV. A0	FILE NAME: 2-108	

標題	大衛產品系列製品規範書	編號	DE-N-060
制定單位	工程課	制定日期	86年06月16日
		版本	A2

1. 產品系列名稱: TS

配合組件: TSI

2. 一般事項:

2.1 適用範圍: 此規範適用於電子設備用連接器。

2.2 使用溫度範圍: -40℃~105℃

3. 外觀構造尺寸:

3.1 外觀: 各部份須加工良好,以目視行之,不得有金屬部份生鏽、嚴重刮傷、裂痕、電鍍不良及剝離現象,塑膠部份不可有破裂、射出不良現象發生。

3.2 構造、尺寸: 依產品圖面。

4. 額定條件: AC250V;1A

5. 電氣特性:

項目	試驗條件	判定基準
5.1 接觸阻抗	1KHZ±200HZ,電壓20mV以下。 電流50mA以下測試。	30mΩ以下
5.2 絕緣阻抗	以DC 500V±10%,相鄰間接觸點或一接觸點對其它所有接觸點, 時間1分鐘±5秒,或平穩上昇時可提前結束。	1000MΩ以上
5.3 耐電壓	以AC 1000V±10%,電壓加於兩相鄰接觸點或一接觸點對其它 所有接觸點,時間1分鐘±5秒。	洩漏電流 3mA以下
5.4 備註		

6. 機械特性:

項目	試驗條件	判定基準
6.1 焊錫性	焊錫溫度250℃±5℃,時間2秒±0.5秒。	沾錫面積90%以上
6.2 插/拔力(每PIN)	將以正常作業方式將公、母插座插入、拔出。	不適用
6.3 保持力/脫殼力(每PIN)	將PIN與塑膠本體水平脫離之力。	500g Min
6.4 公母實配	將公座或母座以正常作業方式插入、拔出。	實配良好
6.5 PCB實配	以正常作業方式將產品DIP端插入PCB。	插板良好
6.6		
6.7		
6.8 備註		

核准



審查

李正作

製作

廖培伶 6/18



Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN, R.O.C.

Report No : CE/2004/10189

Date : 2004/01/09

Page : 1 of 1

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

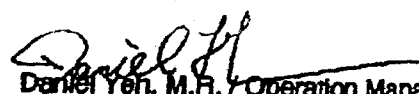
Type of Product : THERMOPLASTIC POLYESTER RESIN
Style/Item No : SHINITE® PBT E202G15
Manufacturer/Vendor : SHINKONG SYNTHETIC FIBERS CORPORATION
Country of Origin : TAIWAN, R.O.C.
Sample Received : 2004/01/05.
Testing Date : 2004/01/05 TO 2004/01/09

Test Result

PART NAME NO.1 : BLACK PLASTIC PELLETS

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.				

- NOTE: (1) N.D. = Not detected.($<$ MDL)
(2) ppm = mg/kg
(3) MDL= Method Detection Limit
(4) " ---" = Not Applicable
(5) " -" = Not Regulation
(6) * = Results shown are of the adjusted analytical results.
(7) **= Qualitative analysis(No Unit)
(8) Negative = Undetectable / Positive = Detectable.


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

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SGS TAIWAN LIMITED | NO. 136-1, Wu Kung Road, WuKu Industrial Zone, Taipei county, Taiwan.
(886-2) 2299-8939 / (886-2) 2299-3237 www.sgs.com.tw

文件編號: ED-04017-04 新光 SGS PBT E202G15 鎘含量



Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN, R.O.C.

Report No. : CE/2004/10190

Date : 2004/01/09

Page : 1 of 1

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


Type of Product : THERMOPLASTIC POLYESTER RESIN
Style/Item No : SHINITE®.PBT E202G15/
Manufacturer/Vendor : SHINKONG SYNTHETIC FIBERS CORPORATION
Country of Origin : TAIWAN, R.O.C.
Sample Received : 2004/01/05.
Testing Date : 2004/01/05 TO 2004/01/09

Test Result

PART NAME NO.1 : BLACK PLASTIC PELLETS

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
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) " ---" = Not Applicable
(5) " -" = Not Regulation
(6) * = Results shown are of the adjusted analytical results.
(7) **= Qualitative analysis(No Unit)
(8) Negative = Undetectable / Positive = Detectable.


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

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文件編號 : ED-040117-04 新光SGS PBT E202G15 鉛含量

Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN, R.O.C.

Report No : CE/2004/10191

Date : 2004/01/09

Page : 1 of 1

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

Type of Product : THERMOPLASTIC POLYESTER RESIN
Style/Item No : SHINITE® PBT E202G15
Manufacturer/Vendor : SHINKONG SYNTHETIC FIBERS CORPORATION
Country of Origin : TAIWAN, R.O.C.
Sample Received : 2004/01/05.
Testing Date : 2004/01/05 TO 2004/01/09

Test Result

PART NAME NO.1 : BLACK PLASTIC PELLETS

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Mercury (Hg)	ppm	ICP-AES After As per US EPA 3052 or other acid digestion.	2	N.D.				

- NOTE: (1) N.D. = Not detected.(<MDL)
(2) ppm = mg/kg
(3) MDL= Method Detection Limit
(4) " ---" = Not Applicable
(5) " -" = Not Regulation
(6) * = Results shown are of the adjusted analytical results.
(7) **= Qualitative analysis(No Unit)
(8) Negative = Undetectable / Positive = Detectable.


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

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文件編號: ED-040117-04 萊光 SGS PBT E202G15 承盤量



Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN, R.O.C.

Report No : CE/2004/10192

Date : 2004/01/09

Page : 1 of 1

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


Type of Product : THERMOPLASTIC POLYESTER RESIN
Style/Item No : SHINITE® PBT E202G15
Manufacturer/Vendor : SHINKONG SYNTHETIC FIBERS CORPORATION
Country of Origin : TAIWAN, R.O.C.
Sample Received : 2004/01/05.
Testing Date : 2004/01/05 TO 2004/01/09

Test Result

PART NAME NO.1 : BLACK PLASTIC PELLETS

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.				

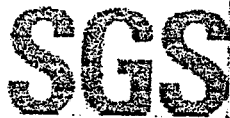
- NOTE: (1) N.D. = Not detected.($<$ MDL)
(2) ppm = mg/kg
(3) MDL= Method Detection Limit
(4) " ---" = Not Applicable
(5) " -" = Not Regulation
(6) * = Results shown are of the adjusted analytical results.
(7) **= Qualitative analysis(No Unit)
(8) Negative = Undetectable / Positive = Detectable.


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

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N886-2 22903939 / (886-2) 2299-3237 www.sgs.com.tw

文件編號: ED-040117-04 新光 SGS PBT E202G15 元竹銘.



Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN

Report No. : CE/2004/10194A
Date : 2004/01/09
Page : 1 of 6

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

Type of Product : THERMOPLASTIC POLYESTER RESIN
Style/Item No : SHINITE® PBT E202G15
Manufacturer/Vendor : SHINKONG SYNTHETIC FIBERS CORPORATION
Sample Received : 2004/01/05
Testing Date : 2004/01/05 TO 2004/01/09

=====

Test Result : - Please see the next page -


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

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Test Report

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8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN

Report No. : CE/2004/10194A

Date : 2004/01/09

Page : 2 of 6

Test Result

PART NAME NO.1 : BLACK PLASTIC PELLETS

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
TBBP-A-BIS(CAS NO:21850-44-2)	ppm	Analysis was performed by HPLC/DAD/MS.	5	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
PBBs(Polybrominated biphenyls)(CAS NO:059536-65-1)								
PBBs(Monobromobiphenyl)	%	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.				
PBBs(Dibromobiphenyl)	%	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.				
PBBs(Tribromobiphenyl)	%	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.				

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TAIWAN

Report No. : CE/2004/10194A

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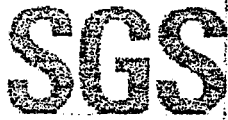
Page : 3 of 6

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
PBBs(Tetrabromobiphenyl)	%	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.				
PBBs(Pentabromobiphenyl)	%	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.				
PBBs(Hexabromobiphenyl)(CAS NO:059080-40-9)	%	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.				
PBBs(Heptabromobiphenyl)	%	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.				
PBBs(Octabromobiphenyl)(CAS NO:061288-13-9)	%	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.				

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TAIWAN

Report No. : CE/2004/10194A

Date : 2004/01/09

Page : 4 of 6

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
PBBs(Nonabromobiphenyl)	%	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.				
PBBs(Decabromobiphenyl)(CAS NO:013654-09-6)	%	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				
PBBEs(PBDEs)(Polybrominated biphenyl ethers)								
PBBEs(PBDEs)(Monobromobiphenyl ether)(CAS NO:000101-55-3)	%	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)(Dibromobiphenyl ether)(CAS NO:002050-47-7)	%	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.				

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Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN

Report No. : CE/2004/10194A

Date : 2004/01/09

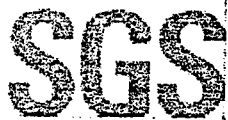
Page : 5 of 6

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
PBBEs(PBDEs)(Tribromobiphenyl ether)(CAS NO:049690-94-0)	%	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)(Tetrabromobiphenyl ether)(CAS NO:040088-47-9)	%	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)(Pentabromobiphenyl ether)(CAS NO:032534-81-9)	%	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)(Hexabromobiphenyl ether)(CAS NO:036483-60-0)	%	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)(Heptabromobiphenyl ether)(CAS NO:068928-80-3)	%	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.				

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8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN

Report No. : CE/2004/10194A

Date : 2004/01/09

Page : 6 of 6

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
PBBEs(PBDEs)(Octabromobiphenyl ether)(CAS NO:032536-52-0)	%	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)(Nonabromobiphenyl ether)(CAS NO:063936-56-1)	%	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)(Decabromobiphenyl ether)(CAS NO:001163-19-5)	%	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.				

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit

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SGS TAIWAN LIMITED

NO. 136-1, Wu Kung Road, Wuku Industrial Zone, Taipei county, Taiwan.
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Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN, R.O.C.

Report No : CE/2004/10196

Date : 2004/01/09

Page : 1 of 1

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

Type of Product : THERMOPLASTIC POLYESTER RESIN
Style/Item No : SHINITE® PBT E202G15
Manufacturer/Vendor : SHINKONG SYNTHETIC FIBERS CORPORATION
Country of Origin : TAIWAN, R.O.C.
Sample Received : 2004/01/05.
Testing Date : 2004/01/05 TO 2004/01/09

Test Result

PART NAME NO.1 : BLACK PLASTIC PELLETS

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

- NOTE: (1) N.D. = Not detected.(<MDL)
(2) ppm = mg/kg
(3) MDL= Method Detection Limit
(4) " ---" = Not Applicable
(5) " -" = Not Regulation
(6) * = Results shown are of the adjusted analytical results.
(7) **= Qualitative analysis(No Unit)
(8) Negative = Undetectable / Positive = Detectable.


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

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PBT E202G15 PVC.



Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN, R.O.C.

Report No. : CE/2004/10195

Date : 2004/01/09

Page : 1 of 1

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

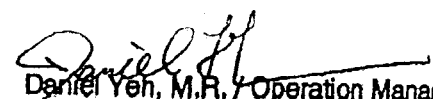
Type of Product : THERMOPLASTIC POLYESTER RESIN
Style/Item No : SHINITE® PBT E202G15
Manufacturer/Vendor : SHINKONG SYNTHETIC FIBERS CORPORATION
Country of Origin : TAIWAN, R.O.C.
Sample Received : 2004/01/05.
Testing Date : 2004/01/05 TO 2004/01/09

Test Result

PART NAME NO.1 : BLACK PLASTIC PELLETS

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Formaldehyde(CAS No:000050-00-0)	ppm	With reference to DIN 53315 & USEPA 8315A. Analysis was performed by HPLC/DAD/MS	0.2	0.6				

- NOTE: (1) N.D. = Not detected.(<MDL)
(2) ppm = mg/kg
(3) MDL= Method Detection Limit
(4) " ---" = Not Applicable
(5) " -" = Not Regulation
(6) * = Results shown are of the adjusted analytical results.
(7) **= Qualitative analysis(No Unit)
(8) Negative = Undetectable / Positive = Detectable.


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

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PBT E202G15 甲酚



Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN, R.O.C.

Report No : CE/2004/10197

Date : 2004/01/12

Page : 1 of 1

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

Type of Product : THERMOPLASTIC POLYESTER RESIN
Style/Item No : SHINITE® PBT E202G15
Manufacturer/Vendor : SHINKONG SYNTHETIC FIBERS CORPORATION
Country of Origin : TAIWAN, R.O.C.
Sample Received : 2004/01/05.
Testing Date : 2004/01/05 TO 2004/01/12

Test Result

PART NAME NO.1 : BLACK PLASTIC PELLETS

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.	0.001	N.D.				
Tributyl Tin(TBT)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.001	N.D.				

- NOTE: (1) N.D. = Not detected.(<MDL)
(2) ppm = mg/kg
(3) MDL= Method Detection Limit
(4) " --- " = Not Applicable
(5) " - " = Not Regulation
(6) * = Results shown are of the adjusted analytical results.
(7) **= Qualitative analysis(No Unit)
(8) Negative = Undetectable / Positive = Detectable.


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

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Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN, R.O.C.


Report No. : CE/2004/10198
Date : 2004/01/09
Page : 1 of 3

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

Type of Product	: THERMOPLASTIC POLYESTER RESIN
Style/Item No	: SHINITE® PBT E202G15
Manufacturer/Vendor	: SHINKONG SYNTHETIC FIBERS CORPORATION
Country of Origin	: TAIWAN, R.O.C.
Sample Received	: 2004/01/05.
Testing Date	: 2004/01/05 TO 2004/01/09

=====

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 Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN, R.O.C.

Report No. : CE/2004/10198

Date : 2004/01/09

Page : 2 of 3

Test Result

PART NAME NO.1 : BLACK PLASTIC PELLETS

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Asbestos								
Anthrophyllite(CAS NO.017068-78-9)	**	HEALTH CANADA-PRODUCT SAFETY BUREAU REFERENCE MANUAL BOOK5-LABORATORY POLICIES AND PROCEDURE(FTIR).	-	Negative				
Crocidolite(CAS NO.012001-28-4)	**	HEALTH CANADA-PRODUCT SAFETY BUREAU REFERENCE MANUAL BOOK5-LABORATORY POLICIES AND PROCEDURE(FTIR).	-	Negative				
Amosite(CAS NO.012172-73-5)	**	HEALTH CANADA-PRODUCT SAFETY BUREAU REFERENCE MANUAL BOOK5-LABORATORY POLICIES AND PROCEDURE(FTIR).	-	Negative				
Tremolite(CAS NO.014567-73-8)	**	HEALTH CANADA-PRODUCT SAFETY BUREAU REFERENCE MANUAL BOOK5-LABORATORY POLICIES AND PROCEDURE(FTIR).	-	Negative				

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PBT E202415 K48 P-2



Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN, R.O.C.

Report No. : CE/2004/10198

Date : 2004/01/09

Page : 3 of 3

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Chrysotile(CAS NO.012001-29-5)	**	HEALTH CANADA- PRODUCT SAFETY BUREAU REFERENCE MANUAL BOOK5-LABORATORY POLICIES AND PROCEDURE(FTIR).	-	Negative				

- NOTE: (1) N.D. = Not detected.($<$ MDL)
(2) ppm = mg/kg
(3) MDL= Method Detection Limit
(4) " ---" = Not Applicable
(5) " -" = Not Regulation
(6) * = Results shown are of the adjusted analytical results.
(7) **= Qualitative analysis(No Unit)
(8) Negative = Undetectable / Positive = Detectable.

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PBT 7502G15 石棉 P-3



Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN, R.O.C.

Report No : CE/2004/10193

Date : 2004/01/09

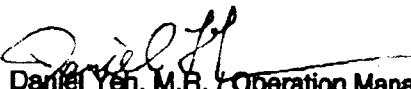
Page : 1 of 2

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

<u>Type of Product</u>	:	THERMOPLASTIC POLYESTER RESIN
<u>Style/Item No</u>	:	SHINITE® PBT E202G15
<u>Manufacturer/Vendor</u>	:	SHINKONG SYNTHETIC FIBERS CORPORATION
<u>Country of Origin</u>	:	TAIWAN, R.O.C.
<u>Sample Received</u>	:	2004/01/05.
<u>Testing Date</u>	:	2004/01/05 TO 2004/01/09

=====

Test Result : - Please see the next page -

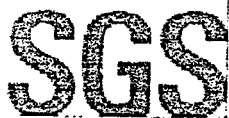

Daniel Yen, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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PBT E202G15-有機化合物 P-1



Test Report

SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI,
TAIWAN, R.O.C.

Report No : CE/2004/10193

Date : 2004/01/09

Page : 2 of 2

Test Result

PART NAME NO.1 : BLACK PLASTIC PELLETS

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.				
Mirex(CAS NO:002385- 85-5)	ppm	Analysis was performed by GC/MS.	4	N.D.				
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to US EPA 8082,89/677/EEC. Analysis was performed by GC/ECD/MS.	0.5	N.D.				
Polychlorinated Naphthalene	ppm	Analysis was performed by GC/MS.	5	N.D.				

- NOTE: (1) N.D. = Not detected.(<MDL)
(2) ppm = mg/kg
(3) MDL= Method Detection Limit
(4) " ---" = Not Applicable
(5) " -" = Not Regulation
(6) * = Results shown are of the adjusted analytical results.
(7) **= Qualitative analysis(No Unit)
(8) Negative = Undetectable / Positive = Detectable.

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PBT E202G15-有机氯化物 P-2

物質材料成份表

材料名稱：新七合纖 FBT

供應商：東吳精密工業股份有限公司

調査日：2004.12.09

料號：適東吳 PB7 E202G15 新料之所有產品

填表人：吳雅雲

[illegible]

* 1. 使用的原材料包括生產過程中所添加的各類添加劑，請填出具體的材料名稱如：穩定劑，請填出象馬來酸鋅這樣的具體材料名稱，其作用可在使用目的一欄中標出。

2. 除鎘、鉛、鎘和汞外其他環境物質如果含有請填“YES”，無請填“NO”，不能確定是否含有物質請填“+”號。

★備註：上述用料防火等級爲 94-V0，故其中含有阻燃劑之成份(鹵素、溴化物)，目前尚未有替代產品可改善，料商正積極研發中。

Certificate of Green Partner

Presented To:

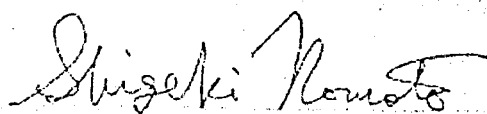
新光合成纖維股份有限公司
Shinkong Synthetic Fibers Corporation

This is to certify that you have successfully established
an environmental management system
that has met the requirements of the Sony Green Partner Program

Term of Validity: 2004/4/1 ~ 2006/3/31

Issued on: 2004/3/23

Approved and Issued by: Procurement Global Head Office,
Sony Corporation



Shigeki Nomoto

Head of Procurement Global Head Office, Global Professional Solutions, Sony Corporation

SONY

新光合成纖維股份有限公司與SONY(新力公司)成為綠色環保伙伴管理系統之保證書

保 證 書

本公司（包括子公司和協力廠商）特此保證，提供給大衛電子股份有限公司的所有產品或料件中，皆須符合 SONY SS-00259 第三版內環境管理物質的規定。貴公司提供之產品及原料若被檢驗出不符合 SONY SS-00259 第三版所規定環境管理物質的任何一項，願負責大衛電子股份有限公司之任何損失及相關賠償。

Subjected Product : SHINITE® PBT 新料

Subjected Grades : E202G15

※產品中添加溴系耐燃劑為：Brominated epoxy resin CAS NO.68928-70-1

表 4.1 環境管理物質名稱一覽

物質名稱	
重金屬	鎘以及鎘化合物
	鉛以及鉛化合物
	汞以及汞化合物
	六價鉻化合物
有機氯化物	多氯聯苯(PCB)
	多氯化奈(PCN)
	氯代烷烴(CP)
	其他有機氯化物
有機溴化合物	多溴聯苯(PBB)
	多溴二苯醚(PBDE)
	其他有機溴化合物
有機錫化合物(三丁基錫化合物、三苯基錫化合物)	
石棉	
偶氮化合物	
甲醛	
聚氯乙稀(PVC) 以及聚氯乙稀混合物	

附件：SONY SS-00259 第三版

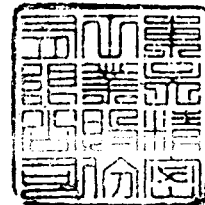
公司名稱：東吳精密工業股份有限公司

負責人：羊蜀忠

公司地址：三重中興北街180巷31號

聯絡電話：(02)2278-1601

公司印章：



2004 年 12 月 13 日

環 保 聲 明 書

立聲明書人：東吳精密工業股份有限公司（以下簡稱立書人）

為因應世界環保潮流，配合各國相關法令，立書人就出售予大衛電子股份有限公司及其所屬子公司或關係企業（以下簡稱大衛公司）之所有產品願為以下承諾：

1. 立書人保證所出售予大衛公司之所有產品其所使用之原物料、染劑、溶劑、耗材、包裝及製程等均不含且未使用產品所在地法律所禁止使用之有害物質，且符合大衛公司對前述物質含量之特殊要求，各物質含量之要求詳如附件。但該產品所含前述物質含量之不符標準為大衛公司所明知且事先同意者，不在此限。
2. 前項約定之各項標準或要求，大衛公司得隨時以書面增、刪、修改。立書人對大衛公司更新之較高標準或較嚴格之要求無法達成或提供保證時，應於接獲大衛公司之書面通知日內以書面通知大衛公司。前述情形，大衛公司得逕行終止契約。
3. 立書人所生產之產品非自行製造生產者，立書人並應代為取得製造者所出具予大衛公司之保證書，其保證之範圍及責任不得低於立書人於本保證書所承擔之範圍及責任，且立書人仍應與製造者負連帶之保證責任，不因取得製造者之保證書而免責。
4. 大衛公司因立書人之產品違反第一項所述之法律規定或大衛公司之要求，致遭行政機關、司法機關對大衛公司進行相關調查或審理程序，或大衛公司之客戶或任何第三人要求大衛公司為說明解釋、或提出相關檢測報告時，立書人應配合大衛公司之要求提出相關之資訊、資料、及其他合理之協助。
5. 立書人違反第一項保證責任，使大衛公司受相關行政機關、司法機關對大衛公司為罰鍰、罰金、禁制令或其他行政處分或司法裁判，或大衛公司之客戶或任何第三人對大衛公司主張損害賠償或其他權利，而使大衛公司受有損害時，立書人應負損害賠償責任（包括但不限於訴訟費、律師費、商譽損失等）。
6. 前項情形，大衛公司並得逕行取消尚未交貨之訂單或解除契約，且前述權利之行使不妨害大衛公司之損害賠償請求權。
7. 本保證書為立書人與大衛公司間所有買賣契約之一部分，但各獨立之買賣契約有較嚴格之約定者，從其約定。

註：此聲明書適用PBT新料與NY6T用料之塑品，PBT OFF料塑品不在此限；另PBT新料與NY6T兩種用料因添加阻燃劑(符合94-V0防火等級)，因此溴、銻、鉍等之成份含量會較偏高，料商正積極在研發替代品以改善此部份之問題。

此致

大衛電子股份有限公司

立書人：東吳精密工業股份有限公司

負責人：羊蜀忠

地 址：241 三重市中興北街180巷31號

統一編號：86110358

2004年 12 月 9 日

承認書檢核表

申請編號：

製造廠商	東吳精密工業股份有限公司	品名規格	PBT 新料 全系列塑品
大衛料號		使用種類	東吳塑膠連接器產品
送件日期		承認日期	2004.12.13

零件承認書(必須具備項目)

☒ 是 ☐ 否

Sony Green Partner 規格：(中文、英文版)

☒ ☐ 1.1 不使用SS-00259禁用物質保證書(鑑定用)----每家廠商皆需要有保證書

☒ ☐ 1.2 環境有關“物質材料成份表”(材料鑑定用)----每家廠商皆需要有保證書
若廠商因機密不願給，只給保證書與檢驗報告亦可。

☒ ☐ 1.3 公證單位檢驗報告(採用ICP-AES檢驗方法)，

金屬(含零件端電極材質)與塑膠部份鉛含量< 1000 / 90ppm，

塑膠(油墨)部份鎘含量< 5ppm

☒ ☐ 1.3.1 RoHs限用要求同一物質含量

鉛Lead(pb)塑膠類< 90ppm, 錒錫 < 1000ppm

汞 Mercury(Hg)< 5ppm

PBB及PBDE塑膠類< 5ppm, 其他類< 1000ppm

鎘Cadmium(Cd)塑膠類< 5ppm, 其他類< 75ppm

六價鉻Hex. Chromium (Cr⁶⁺)< 1000ppm, 塑膠類及印刷,包材 < 100ppm

☐ ☐ 1.3.2 包裝廢棄物指令(包裝和包裝組件)

鉛+鎘+汞+六價鉻 總量<100ppm

註：無相關檢測報告

無鉛製程零件耐熱規格：(SMT 元件，For Sony product only)

☐ ☐ 1.4 零件可承受溫度245°C環境5秒及225°C環境60秒以上，無任何功能不良及外觀不良

☐ ☐ 1.5 2°C/sec<冷卻速率<3.5°C/sec無任何功能不良及外觀不良

註：因 PBT 料之溶點約為 190°C~200°C，故不適合無鉛製程。

無鉛製程零件耐熱規格：(DIP 元件,for Sony product only)

☐ ☐ 1.6 零件可承受溫度260°C環境10±1秒以上，無任何功能不良及外觀不良

註：因 PBT 料之溶點約為 190°C~200°C，故不適合無鉛製程。

若必須具備項目提供不足者，一律退件;若「是」與「否」欄全無勾選者，表示該零件無此項特性，可忽略。

確認：_____

承認工程師：_____



Test Report

YUANG HSIAN METAL INDUSTRIAL CORP.
175, CHANG SHOEI ROAD, CHANG HUA CITY,
TAIWAN

Report No. : CZ/2004/A4100

Date : 2004/11/04

Page : 1 of 1

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

Type of Product : BRASS WIRE
Style/Item No : CZ500W
Manufacturer/Vendor : YUANG HSIAN METAL INDUSTRIAL CORP.
Country of Origin : TAIWAN
Sample Received : 2004/10/29
Testing Date : 2004/10/29 TO 2004/11/04

Test Results

PART NAME NO.1 : GOLDEN COLORED WIRE

Test Item(s)	Unit	Method	MDL	Result				
				No.1				
Chromium VI (Cr+6)	ppm	As per US EPA 7195A and US EPA 3060A.	2	N.D.				
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.				
Cobalt (Co)	ppm	ICP-AES after as per US EPA 3050B 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	13.1				

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit

SGS TAIWAN LTD.

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TW 1152819

SGS Taiwan Ltd.
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SGS

2/5

电话

Test Report

No.: GZSCR040413282/LP

Date: APR 28, 2004

Page 1 of 1

DONGGUAN DONGGUO METAL SURFACE HANDLE CO., LTD.
 LUDONG INDUSTRIAL DISTRICT, HUMEN TOWN,
 DONGGUAN CITY, GUANGDONG PROVINCE, CHINA
 CO., LTD.

Report on the submitted sample said to be 电解液

SGS Ref No. : SZ040404176EC-16.9
 Buyer : SONY
 Sample Receiving Date : APR 23, 2004
 Testing Period : APR 25, 2004 TO APR 28, 2004

Test Requested : As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : Lead, Cadmium & Mercury content - In-house method.
 Hexavalent Chromium content - with reference to EPA 3060A & EPA 7196A.
 Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.

RESULTS

Lead content (Pb)
 Cadmium Content (Cd)
 Mercury Content (Hg)
 Hexavalent Chromium Content [Cr(VI)]

Transparent liquid

N.D.
 N.D.
 N.D.
 N.D.

Note : - N.D. = Not Detected (< 2 ppm)
 - ppm = mg/L

*** End of Report ***

Signed for and on behalf of
 SGS-CSTC Ltd.

He Xiaoyan
 He Xiaoyan, Jane
 Tech. Manager

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GZCM 134006

SGS-CSTC Standards Technical Services Co., Ltd.
 Guangzhou Branch Chemical Laboratory

4/F, Block A, Yu Jing Industrial Park, Ling Shui Road, Zhi Cai Dong Pu Area, Tianhe District, Guangzhou China 510660
 中国·广州·天河区东圃珠村灵山路裕豪工业园八栋四楼 邮编: 510660

Member of SGS Group (Société Générale de Surveillance)

SGS

5/5

Test Report

No: GZSCR040413289/LP

Date: APR 28, 2004

Page 1 of 1

DONGGUAN DONGXU METAL SURFACE HANDLE CO., LTD.
 LUDONG INDUSTRY DISTRICT, HUMEN TOWN,
 DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

Report on the submitted sample said to be NICKLE CHEMISTRY LIQUID MEDICINE (镍电镀液)

SGS Ref No. : SZ040404176EC-16.16
 Buyer : SONY
 Sample Receiving Date : APR 23, 2004
 Testing Period : APR 25, 2004 TO APR 28, 2004

Test Requested : As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : Lead, Cadmium & Mercury content - In-house method.
 Hexavalent Chromium content - with reference to EPA 3060A & EPA 7196A.
 Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.

RESULTS

Lead content (Pb)
 Cadmium Content (Cd)
 Mercury Content (Hg)
 Hexavalent Chromium Content [Cr(VI)]

Green liquid

N.D.

N.D.

N.D.

N.D.

Note: - N.D. = Not Detected (< 2 ppm)
 - ppm = mg/L

*** End of Report ***

Signed for and on behalf of
 SGS-CSTC Ltd.

He Xiaoyan, Jane
 Tech. Manager

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GZCM 134015

SGS-CSTC Standards Technical Services Co., Ltd.
 Guangzhou Branch Chemical Laboratory

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Member of SGS Group (Société Générale de Surveillance)

Test Report

No.: GZSCR040413274/LP

Date: APR 28, 2004

Page 1 of 1

DONGGUAN DONGXU METAL SURFACE HANDLE CO., LTD.
LUDONG INDUSTRY DISTRICT, HUMEN TOWN,
DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

Report on the submitted sample said to be Au CHEMISTRY LIQUID MEDICINE (金电镀液)

SGS Ref.No. : S2040404176EC-16.1
Buyer : SONY
Sample Receiving Date : APR 23, 2004
Testing Period : APR 25, 2004 TO APR 28, 2004

Test Requested : As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : Lead, Cadmium & Mercury content - In-house method.
Hexavalent Chromium content - with reference to EPA 3060A & EPA 7196A.
Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.

RESULTS

Lead content (Pb) N.D.
Cadmium Content (Cd) N.D.
Mercury Content (Hg) N.D.
Hexavalent Chromium Content [Cr(VI)] N.D.

Fan transparent liquid.

Note: N.D. = Not Detected (< 2 ppm)
- ppm = mg/L

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.

He Xiaoyan, Jane
Tech. Manager

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GZCM 134048

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Chemical Laboratory

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SGS-CSTC (Guangzhou) General de Surveillance

NOTE

[illegible]