

## WHA YU INDUSTRIAL CO., LTD. (HEAD OFFICE) DONGGUAN AEON TECH CO., LTD. (CHINA) TAI HWA ELECTRONIC CO., LTD.(CHINA) SHANGHAI HUA YU ELECTRONIC CO., LTD.(CHINA) SU ZHOU AEON TECH CO., LTD. (CHINA)

## SPECIFICATION FOR APPROVAL

中磊科技股份有限公司 **CUSTOMER:** 

NP-5015 Product Assembly for Gemtek(Belkin) PART NAME:

PART NO.:

**REVISION:** 

C147-510242-A W. Y. P/NO.:

REV.: X1

	MANUFACTURER	CUSTOMER
	SIGNATURE	SIGNATURE
APPROVED BY :	<b>子</b> 一般 一般 一個 個 簡 問 講	
DATE :	7 用解圖欄 面謳毘業	

WHA YU GROUP WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

**譁裕實業股份有限公司** 

Address: No. 326, Sec. 2, Kung Tao 5 Road, Hsin Chu Ciry, Taiwan, R.O.C. Fax:+ 886-3-5713853 · + 886-3-5723600 Tel:+886-3-5714225(REP.)

### **DONGGUAN AEON TECH CO.,LTD.(CHINA)**

東莞台霖電子通訊有限公司

Address:Lakeside Industrial Park, Da Ling Shan Town, Dong Guan City, GuangDong, China Tel: + 86-769-85655858 Fax: # 86-769-8565525

TAI HWA ELECTRONC FACTORY

台樺電業制品廠

Address: Pak Ho District, Hou Street Town, Dong Guan City, Guangdong, China Tel: + 86-769-85599375 · + 86-769-85912375 Fax: + 86-769-85599376

HUA HONG INTERNATIONAL LTD.

華弘國際有限公司

Address: Rm. 1103A, President Commercial Centre, 608 Nathan Road, Mong Kok, Kowloon, Hong Kong Fax: + 86-852-23843747 Tel: + 86-852-27712210

SHANGHAI HUA YU ELECTRONIC CO., LTD. (CHINA)

上海譁裕電子有限公司

Address: 3586, Wai Qing Song Road, Qing Pu County, Shanghai China

Tel: + 86-21-59741348 · + 86-21-59744101~4 Fax: + 86-21-59741347

SU ZHOU AEON TECH CO., LTD. (CHINA)

蘇州華廣電通有限公司

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# **Contents**

ltem	Description	Page
1.	 天線規格表	1
2.	 成品圖	2
3.	 測試報告	3~9
4.	 Cable規格	10
5.	 Connector材質特性	
6.	 SGS測試	12~59

## **RF** Antenna Assembly

## Specification

1. Elect	rical Properties :	
1.1	Frequency Range	2.4GHz ~ 2.5GHz
1.2	Impedance	$50\Omega$ Nominal
1.3	VSWR	1.92 Max.
1.4	Return Loss	-10 dB Maximum
1.5	Radiation	.Omni-directional
1.6	With Power Divide Gain(peak)	3.7dBi(Including Cable Loss)
	Left Antenna Gain(peak)	1.1dBi(Including Cable Loss)
	Middle Antenna Gain(peak)	1.2dBi(Including Cable Loss)
	Right Antenna Gain(peak)	1.4dBi(Including Cable Loss)
1.7	Cable Loss	.2.1dB
1.8	Polarization	Linear Vertical
1.9	Admitted Power	1W
2. Phys	ical Properties :	
2.1	Cable	RG-174 Coaxial Cable
2.2	Antenna Cover	TPE
2.3	Antenna Base	PBT
2.4	Belkin MIMO Housing	ABS
2.5	Molding	PVC
2.6	Operating Temp	-20 ~ +65
2.7	Storage Temp.	-30 ~+75
2.8	Antenna Color	Black
2.9	Housing Color	Black
2.10	Molding Color	Black
2.11	Connector	SMA Plug Reverse Quick Crimp





RF Antenna Assembly P/NO : C147-510242-A SPEC : 2.4GHz





### Isolation

### Left Antenna-Middle Antenna



### Left Antenna-Right Antenna





### Middle Antenna-Right Antenna



7/5/2006









SPECIFICATION: (1C*26AWG+B)x3F				CONTRUCTI	ONE D.W.G	an a		
II	T E M		SPECIFICAT	ION				— MARKING
	AWG		26AWG					
CONDUCTOR MATERIAL		BARE COPPER			$\frown$		— JACKET	
	COND.SIZE		7/0.165± 0.008m	ım	] /		VA	BRAID
	MIN.AVG.THIC	CK	0.50 mm			$( \circ ) ( \circ )$		
INSULATION	MATERIAL		XL-PE					CONDUCTOR
	0 . D		$1.50\pm0.10$ mm			$\bigcirc$ $\bigcirc$		
BRAID	MATERIAL		TINNED COPPE	ER				
COPPER	SIZE		16*5/0.10± 0.008	3 mm				
	NO.		(1C*26AWG+B)	×3F				
	MIN.AVG.THIC	CK	0.51 mm					
JACKET	MATERIAL		HALF MATTE F	VC				
	COLOUR	UL813 BLA	CK (COLD RESISTANCE:	-20°C~80°C)LOW TOXIC		COLOU	R CODE:	
	0 . D		3.00*3.00*3.00 ±	:0.15~0.60 mm	NATURAL			
					E119932 RJ A	MAR WM 20120 80°(	KING C 30V COPART	NER
						R E M	ARK	
					1.Attenuation: at at 4GHz 2.59dE	1GHz 1.12dB/M ; at 3/1M at 5GHz 3.01c	2GHz 1.67dB/M at 3 1B/M;at 6G Hz 3.52dI	GHz 2.13dB/M; B/M. (nominal)
ELECTR	ICAL CHARA	CTERISTICS	PHYSICAL PROPE	ERTIES OF JACKET		COPART	IER WIRE &	CABLE
1. Rating : TEMP	80°C ; VOLTA	GE 30V	1. Flexibility test: NO CRACI	KING	COPARTNER	(SHENZH	EN) MFG CO	O., LTD.
2. Conductor Resis 26AWG: 148.9	stance: at 20°C M $04\Omega/km$ ;	IAX	2. Flame test: PASS Horizon	ntal flame		PART NO.	7370326	016
<ol> <li>Insulation Resis</li> <li>Dielectric Strens</li> </ol>	tance: 10MΩ-km m gth <u>:</u> AC 500V/1m	un at 20°C de 500V linute no breakdown.			APPROVED		CUSTOMER	華裕(台樺)
5.Impedance: $50\pm 5\Omega$				CHECKED		REV	А	
0. 11 1000 .00 /0(1					DRAWING	ZWF	DATE	2005/6/2

譁裕實業股份有限公司
WHA YU INDUSTRIAL CO., LTD

Connector 材質證明書



.

## **Product : RF Antenna**

No	Description		Report No.	Page
1	Cabla	RG-174	GZSCR051188754/LP	D12 19
1	Cable	(1C*26AWG+B)x3F	CE/2005/B7507	P.15~18
2	Belkin Antenna Housing	ABS	KE/2006/10283	P.19~20
3	Antenna Cap	TPE EL-630	CE/2005/B4713	P.21~25
4	Antenna Base	PBT	2038519/EC	P.26~28
5	Rivet	Brass; Zn Plated	CE/2006/39133	P.29~30
			CE/2006/17417A	
6	Connector	SMA Plug Reverse	KA/2006/20922A-01	D21 29
0	Connector	Quick Crimp	KA/2006/20923A-01	F.31~30
			SH570049/CHEM	
7	Weight	Iron ; Plating Zn	CE/2006/11167	P.39~42
0	Cushion	Silicono	CE/2005/91084A	D 42 50
0	Cusilion	Sincone	CE/2006/40603	r.43~39

## Contents

## **Result for RoHS : PASS**



### No.: GZSCR051188754/LP

Date: NOV 22, 2005

Page 1 of 2

DONG GUAN JIUH FENG COPPER WIRES CO., LTD WU SHI GANG INDUSTRIAL AREA, ZHU SHAN MANAGEMENT ESTATE, DONG CHENG ZONG DONGGUAN P.R.C.

Report on the submitted sample said to be 彼锡线(英文代称T.C)

SGS Ref No.	: SZ051124519EC-3.1
Manufacturer/Supplier	:东莞巨丰
Sample Receiving Date	: NOV 16, 2005
Testing Period	: NOV 16, 2005 TO NOV 22, 2005

**Test Requested** 

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

(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method :

: (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion. Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion. Mercury content - With reference to EPA 3052; 1996 / 7473: 1998 / other acid digestion. Hexavalent Chromium content - With reference to EPA 3060A : 1996 & EPA 7196A : 1992 / acid digestion.

Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS

Spectrophotometer

(2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

RESULTS

: Please refer to next page.



Signed for and on behalf of SGS-CSTC Ltd.

Zhang Li, Amy Sr. Engineer

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SGS-CS Standards Technical South Co., 11d Guanga hour sector and South South

1981EAU Root, SCENTECH Par Guargebou Ecrome a Technolog, Checkporter District, Guargebou, Check \$1065) 1 (86-20)82155555 1 (86-20)82075113 www.cn.sgs.com 11日 - 广州 - 经济技术开发区科学城科1珠路198号 前44:510663 1 (86-20)82155555 1 (86-20)82075113 9 505 checkfirsts com

GZCM

369570



#### **Test Report** No.: GZSCR051188754/LP Date: NOV 22, 2005

**Results** :

(1)

			Silvery metal wire
Lead Content (	(Pb)(ppm)		3
Cadmium Con	tent (Cd)		N.D.
Mercury Conte	nt (Hg)		N.D.
Hexavalent Ch	romium Conte	ent [Cr(VI)]	N.D.

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

(2)

<b>1</b>	Ciluana malal view
Flame Retardants	Silvery metal wire
Polybrominated Binbenyls (PBBc)	
Monobromobiohenvil	
Dibromobiohenvl	
Tribromobiphenyl	N.D.
Tetrabromobioheavi	<u> </u>
Postobroschistosul	<u>N.D.</u>
Heinhomodiphenyi	<u>N.D.</u>
	N.D.
Heptabromobiphenyi	N.D.
Octabromobiphenyl	N.D.
Nonabromodiphenyl	N.D.
Decabromodiphenyl	N.D.
Polybrominated Diphenylethers (PBDEs)	· · · · · · · · · · · · · · · · · · ·
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	ND
Heptabromodiphenyl ether	N.D
Octabromodiphenyl ether	ND
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note: - N.D. = Not Detected (< 5 ppm)

Laboratory.

- ppm = mg/kg

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

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Page 2 of 2



AMPRO TECHNOLOGIES INC.	Report No.	:CE/2005/B7507
4F, #78 ROOSEVELT ROAD SECTION 1, TAIPEI, TAIWAN	Date	:2005/12/07
	Page	:1 of 4

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

<u>Type of Product</u>	:	HIGH DENSITY POLYETHYLENE RESINS
<u>Style/Item No</u>	:	LR-5900-05
Sample Received	:	2005/11/30
<u>Testing Date</u>	:	2005/11/30 TO 2005/12/07

<u>Conclusion</u>

: The test results of Pb, Cd, Hg, Cr+6, PBB and PBDE for the submitted sample comply with the requirements of RoHS (2002/95/EC).

**Operation Manager** 

Signed for and on behalf of SGS TAIWAN LTD.

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AMPRO TECHNOLOGIES INC. 4F, #78 ROOSEVELT ROAD SECTION 1, TAIPEI, TAIWAN

1

Report No.	:CE/2005/B7507
Date	:2005/12/07
Page	:2 of 4

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### **Test Result**

PART NAME NO.1

TRANSPARENT-WHITE PLASTIC PELLETS

				Result	Limit of
Test Item (s):	Unit	Method	MDL	No.1	ROHS
Monobromobiphenyl	%	·	0.0005	N.D.	_
Dibromobiphenyl	%		0.0005	N.D.	-
Tribromobiphenyl	%		0.0005	N.D.	-
Tetrabromobiphenyl	%	With reference to	0.0005	N.D.	-
Pentabromobiphenyl	%	USEPA3540C or	0.0005	N.D.	-
Hexabromobiphenyl	%	USEPA3550C. Analysis was	0.0005	N.D.	
Heptabromobiphenyl	%	LC/MS or GC/MS.	0.0005	N.D.	-
Octabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005	N.D.	-
Nonabromobiphenyl	%	(RoHS), 83/264/EEC, and	0.0005	N.D.	-
Decabromobiphenyl	%	76/769/EEC)	0.0005	N.D.	- ·
Total	%	1		N.D.	0.1
PBBs(Polybrominated				···	-
biphenyls)/Sum of above					
Monobromobiphenyl ether	%		0.0005	•••••• <b>N</b> .D.	- <b>-</b>
Dibromobiphenyl ether	%		0.0005	N.D.	-
Tribromobiphenyl ether	%		0.0005	N.D.	-
Tetrabromobiphenyl ether	%.		0.0005	N.D.	-
Pentabromobiphenyl ether	%		0.0005	N.D.	-
Hexabromobiphenyl ether	%	With reference to	0.0005	N.D.	-
Heptabromobiphenyl ether	%	USEPA3540C or	0.0005	N.D.	-
Octabromobiphenyl ether	%	performed by HPLC/DAD.	0.0005	N.D.	<u>-</u>
Nonabromobiphenyl ether	%	LC/MS or GC/MS.	0.0005	N.D.	-
Decabromobiphenyl ether	%	(prohibited by 2002/95/EC	0.0005	N.D.	-
Totai	%	(RoHS), 83/264/EEC, and	_	N.D.	-
PBBEs(PBDEs)(Polybromin		76/769/EEC)			
ated biphenyl ethers)/Sum					
of above					
Total of Mono to Nona- brominated biphenyl ether. (Note 6)	%.		-	N.D.	0.1

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AMPRO TECHNOLOGIES INC.

4F, #78 ROOSEVELT ROAD SECTION 1, TAIPEI, TAIWAN

 Report No.
 : CE/2005/B7507

 Date
 : 2005/12/07

 Page
 : 3 of 4

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					11100
	TT *4		MDI	Result	Limit of
Test Item (s):	Unit	Metnod	MDL	No.1	ROHS
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.	1000
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	100
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	1000
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	1000

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

- (3) MDL = Method Detection Limit
- (4) " " = Not Regulation
- (5) " ---- " = Not Applicable
- (6) Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.
- (7) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.



AMPRO TECHNOLOGIES INC.

4F, #78 ROOSEVELT ROAD SECTION 1, TAIPEI, TAIWAN

 Report No.
 : CE/2005/B7507

 Date
 : 2005/12/07

 Page
 : 4 of 4



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Chemical Laboratory - Kao., SGS Taiwan Ltd.

### **TEST REPORT**

#### REPORT NO.KE/2006/10283 DATE: 2006/1/11 PAGE: 1 OF 2

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED ON BEHALF OF THE CLIENT AND IDENTIFIED AS :

CLIENT	: CHI MEI CORPORATION
ADDRESS	: 59-1, SAN CHIA, JEN TE HSIANG, TAINAN COUNTY, TAIWAN, R.O.C.
PRODUCT DESCRIPTION	: ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER.
	: (AS ATTACHED SAMPLE PHOTO).
COLOR	: NATURAL.
STYLE/ITEM NO.	: POLYLAC® PA-757.
TESTING DATE	: 2006/01/05 TO 2006/1/11 .
SAMPLE RECEIVED	<b>:</b> 2006/01/05.
TESTING DATE SAMPLE RECEIVED	: POLYLAC® PA-757. : 2006/01/05 TO 2006/1/11 . : 2006/01/05.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	n.d.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	n.d.



Kueilan Chen / Asst. Supervisor Signed for and on behalf of SGS Taiwan Limited

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Chemical Laboratory - Kao., SGS Taiwan Ltd.

### **TEST REPORT**

REPORT NO.KE/2006/10283 DATE: 2006/1/11

PAGE: 2 OF 2

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
PBBs (Polybrominated biphenyls)		#C		
Monobromobiphenyl	%		0.0005	n.d.
Dibromobiphenyl	%		0.0005	n.d.
Tribromobiphenyl	%	With reference to USEPA3540C or	0.0005	n.d.
Tetrabromobiphenyl	%	USEPA3550C Analysis was performed by	0.0005	n.d.
Pentabromobiphenyl	%	HPLC/DAD LC/MS or GC/MS (prohibited	0.0005	n.d.
Hexabromobiphenyl	%	by 2002/95/EC (RoHS) 83/264/EEC and	0.0005	n.d.
Heptabromobiphenyl	%	76/769/EEC)	0.0005	n.d.
Octabromobiphenyl	%		0.0005	n.d.
Nonabromobiphenyl	%		0.0005	n.d.
Decabromobiphenyl	%		0.0005	n.d.
PBDEs (Polybrominated biphenyl ethers)				
Monobromobiphenyl ether	%		0.0005	n.d.
Dibromobiphenyl ether	%		0.0005	n.d.
Tribromobiphenyl ether	%	With reference to USEPA3540C or	0.0005	n.d.
Tetrabromobiphenyl ether	%	USEPA3550C. Analysis was performed by	0.0005	n.d.
Pentabromobiphenyl ether	%	HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and	0.0005	n.d.
Hexabromobiphenyl ether	%		0.0005	n.d.
Heptabromobiphenyl ether	%	76/769/EEC)	0.0005	n.d
Octabromobiphenyl ether	%	]	0.0005	n.d.
Nonabromobiphenyl ether	%		0.0005	n.d.
Decabromobiphenvl ether	%		0.0005	n.d.

NOTE : n.d. = not detected.

<END>



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Report No. : CE/2005/B4713 Date : 2005/11/28 Page : 1 of 5

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

<u>Type of Product</u>	:	ARNITEL TPE-E EL630 NATURAL
<u>Buyer/Order No</u>	:	SONY
Sample Received	:	2005/11/21
<u>Testing Date</u>	:	2005/11/21 TO 2005/11/28

<u>Test Result</u>

· Please see the next page -

**Operation Manager** Signed for and on behalf of

SGS TAIWAN LTD.





Report No.	: CE/2005/B4713
Date	: 2005/11/28
Page	: 2 of 5

### Test Result

PART NAME NO.1

:

#### WHITE PLASTIC PELLETS

	TT. 14	Weth ed	MDI	Result
Test Item (s):	Test Item (s): Onit Method		MDL	No.1
Monobromobiphenyl	%		0.0005	N.D.
Dibromobiphenyl	%		0.0005	N.D.
Tribromobiphenyl	%		0.0005	N.D.
Tetrabromobiphenyl	%	With reference to	0.0005	N.D.
Pentabromobiphenyl	%	USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl	%	USEPA3550C. Analysis was	0.0005	N.D.
Heptabromobiphenyl	%	LC/MS or GC/MS.	0.0005	N.D.
Octabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005	N.D.
Nonabromobiphenyl	%	(RoHS), 83/264/EEC, and	0.0005	N.D.
Decabromobiphenyl	%	76/769/EEC)	0.0005	N.D.
Total PBBs	%		-	N.D.
(Polybrominated				
biphenyls)/Sum of above				
Monobromobiphenyl ether	%		0.0005	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.
Tetrabromobiphenyl ether	%		0.0005	N.D.
Pentabromobiphenyl ether	%	With reference to	0.0005	N.D.
Hexabromobiphenyl ether	%	USEPA3540C or	0.0005	N.D.
Heptabromobiphenyl ether	%	USEPA3550C. Analysis was	0.0005	N.D.
Octabromobiphenyl ether	%	performed by HPLC/DAD,	0.0005	N.D.
Nonabromobiphenyl ether	%	LC/MS or $GC/MS$ .	0.0005	N.D.
Decabromobiphenyl ether	%	(prohibited by  2002/95/EC)	0.0005	N.D.
Total PBBEs(PBDEs)	%	76/769/EEC)	-	N.D.
(Polybrominated biphenyl		-,, -,		
ethers)/Sum of above		1		
Total of Mono to Nona-	%		-	N.D.
brominated biphenyl				
etner. (Note 4)				





Report No. : CE/2005/B4713 Date : 2005/11/28 Page : 3 of 5

	TTes	Mathad	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to 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) Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.
- (5) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.
- (6) " " = Not Regulation





Report No. : CE/2005/B4713 Date : 2005/11/28 Page : 4 of 5

Per requirements of SONY QAR-05-002:

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Anren Lee
- 3) Name of the person in charge of measurement: Daniel Yeh

### Flow Chart of Digestion for Plastic -EPA3052 for Pb · Cd (without residue)







Report No. : CE/2005/B4713 Date : 2005/11/28 Page : 5 of 5





No. 2038519/EC

Date : Oct 10 2005

Page 1 of 3

RAYCONG INDUSTRIAL (H.K.) LTD. RM. 1008-1011, TOWER II, METRO PLAZA, HING FONG ROAD, KWAI CHUNG, N.T. HONG KONG

Report on the submitted sample said to be PBT.

SGS Job No. 1881057 Style / Item No. 310SE0-1001, 420SE0-1001, DR48-1001 Buyer SONY Supplier RAYCONG INDUSTRIAL (HONG KONG) LTD Manufacturer GE PLASTICS LTD Sample Receiving Date OCT 04 2005 Testing Pariod OCT 05 - 10 2005

Test Requested

With reference to SONY SS-00259

- 1) To determine the Cadmium Content in the submitted sample. 2)
- To determine the Lead Content in the submitted sample. 3)
- To determine the Mercury Content in the submitted sample. 4)
- To determine the Hexavalent Chromium Content on the submitted
- 5) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Pre-conditioning and Measurement Method :

1-3) With reference to EPA Method 3051/3052 / dry ashing. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).

- With reference to EPA Method 3060A & 7196A. 4)
- The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.
- 5) With reference to EPA Method 3540C/ 3550C. Analysis was performed

Test Results

1-5) Please refer to the next page

Signed for and on behalf of SGS Hong Kong Ltd

Ho Ka Ting, Family Laboratory Executive

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No. 2038519/EC

Date : Oct 10 2005

Page 2 of 3

**Test Results** 

10

Test Item 1) Cadmium (Cd) 2) Lead (Pb) 3) Mercury (Hg)	1D000 ZZZZ	3	Detection Limit 2 ppm 2 ppm 2 ppm 2 ppm
4) Hexavalent Chromium (Cr*6)	ND		2 ppm

(Results shown are of the total weight of samples)

Note : ppm = mg/kg ND = Not Detected

Not detected is reported when the reading is less than detection limit value

The calculation on the reported results of composite samples is based on the total weight of Remark : the composite samples.

Flame Retardants	1	Detection Limit
Polybrominated Biphenyls (PBBs)	and	
Monobromobipheny	ND	5 ppm
Dibromobiphenyl	ND	5 ppm
Tribromobiohenyl	ND	5 ppm
Tetrabromobiohenyl	ND	5 ppm
Pentabromobiohenvi	ND	5 ppm
Hexabromobipheovi	ND	5 ppm
Heptabromobiohenvi	ND	5 ppm
Octabromobiphenyl	ND	5 ppm
Nonabromobiohenvi	ND	5 ppm
Decabromobiohenvi	ND	5 ppm
Polybrominated Diphenylethers (PBDEs)	***	
Monobromodiphenyl ether	ND	5 ppm
Dibromodichenvi ether	ND	5 ppm
Tribromodiphenyl ether	ND	5 ppm
Tetrabromodiphenvl ether	ND	5 ppm
Pentabromodiphenyl ether	ND	5 ppm
Hexabromodiphenyl ether	ND	5 ppm
Heptabromodiphenyl ether	ND	5 ppm
Octabromodiphenvl ether	ND	5 ppm
Nonabromodiphenyl ether	ND	5 ppm
Decabromodiphenyl ether	ND	5 ppm

Note :

ppm = mg/kg ND = Not Detected

Not detected is reported when the reading is less than detection limit value

Remark : The calculation on the reported results of composite samples is based on the total weight of the composite samples.

Sample Description : 1. White Plastic Pellet (310SE0-1001) + White Plastic Pellet (420SE0-1001) + White Plastic Pellet (DR48-1001)

The composite sampling method is based on the client's special request and is a Remark : modification from the testing method

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No. 2038519/EC

Date : Oct 10 2005

Page 3 of 3

Flow chart of digestion for Cd, Pb (Ashing after EPA3051/3052 for Cd, Pb)



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator

.

Chow Fuk Fung

Section Chief

Lee Fung Mei, Miranda

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

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WHA YU INDUSTRIAL CO., LTD. NO. 326, SEC. 2, KUNG TAO 5. ROAD, HSIN CHU CITY, TAIWNA, R.O.C. 
 Report No.
 : CE/2006/39133

 Date
 : 2006/03/30

 Page
 : 1 of 2

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

<u>Type of Product</u>	:	Ø1.6*3.8 RIVET; BRASS MATERIAL; PLATING BLACK Zn
<u>Style/Item No</u>	:	100-4003010-AZ, 壬裕
Sample Received	:	2006/03/28
Testing Date	:	2006/03/28 TO 2006/03/30

\_\_\_\_\_\_

### **Test Result**

PART NAME NO.1

: BLACK METAL PELLETS

Test Item (s);	IIait	Mathad	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	70.2
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	30996.7

NOTE: (1) N.D. = Not detected (<MDL)

- (2) ppm = mg/kg
- (3) MDL = Method Detection Limit

**Operation Manager** 

Signed for and on behalf of SGS TAIWAN LTD.



WHA YU INDUSTRIAL CO., LTD. NO. 326, SEC. 2, KUNG TAO 5. ROAD, HSIN CHU CITY, TAIWNA, R.O.C. Report No. : CE/2006/39133 Date : 2006/03/30 Page : 2 of 2





YUANG HSIAN METAL INDUSTRIAL CORP. 175, CHANG SHOEI ROAD, CHANG HUA CITY, TAIWAN 
 Report No.
 : CE/2006/17417A

 Date
 : 2006/02/08

 Page
 : 1 of 2

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

Type of Product	:	COPPER ALLOY C3604-3A
產品利號	:	DIA 12.7mm
Sample Received	:	2006/01/26
Testing Date	:	2006/01/26 TO 2006/02/08

:

### Test Result

PART NAME NO.1

COPPER COLORED METAL

	W7	<b>38</b> - 14 - 1	1601	Result
Test Item (s):	Unit	Method	MDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	15.3
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	26547.5

NOTE: (1) N.D. = Not detected (<MDL)

- (2) ppm = mg/kg
- (3) MDL = Method Detection Limit

Operation Manager

Signed for and on behalf of SGS TAIWAN LTD.

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YUANG HSIAN METAL INDUSTRIAL CORP. 175, CHANG SHOEI ROAD, CHANG HUA CITY, TAIWAN Report No. : CE/2006/17417A :2006/02/08 Date :2 of 2 Page



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REPORT NO.KA/2006/20922A-01 DATE: 2006/2/22 PAGE: 1 OF 2

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED ON BEHALF OF THE CLIENT AND IDENTIFIED AS :

CLIENT	: DING MING INDUSTRY LTD.
PRODUCT DESCRIPTION	: GOLD PLATING PRODUCT.
SAMPLE	: AS ATTACHED PHOTO.
TESTING DATE	: 2006/2/15 TO 2006/2/22 .
SAMPLE RECEIVED	: 2006/02/15.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT METHOD		MDL	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122 :2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.
PBBs(Polybrominated biphenyls)				-+-
Monobromobiphenyl	%		0.0005	n.d.
Dibromobiphenyl	%	1	0.0005	n.d.
Tribromobiphenyl	%	Mith reference to USEPA3540C or	0.0005	n.d.
Tetrabromobiphenyl	%	USEDA2550C Applysis was performed by	0.0005	n.d.
Pentabromobiohenvl	%	HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Hexabromobiphenyl	%		0.0005	n.d.
Heptabromobiphenyl	%		0.0005	n.d.
Octabromobiphenyl	%		0.0005	n.d.
Nonabromobiphenyl	%		0.0005	n.d.
Decabromobiphenyl	%		0.0005	n.d.
PBDEs(Polybrominated biphenyl ethers)		-		
Monobromobiphenyl ether	%		0.0005	n.d.
Dibromobiphenyl ether	%		0.0005	n.d.
Tribromobiphenyl ether	%	With reference to USERA3540C or	0.0005	n.d.
Tetrabromobiphenvl ether	%	USEDA2550C Applyois was performed by	0.0005	- n.d.
Pentabromobiphenvl ether	%	UDEPA3000. Analysis was performed by	0.0005	n.d.
Hexabromobiphenyl ether	%	HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Heptabromobiphenvl ether	%	76/760/EEC)	0.0005	n.d.
Octabromobiphenyl ether	%	10/103/EEC)	0.0005	n.d.
Nonabromobiphenyl ether	%		0.0005	n.d.
Decabromobiphenyl ether	%		0.0005	n.d.

NOTE: (1) n.d. = not detected

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

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Kueilan Chen / Asst. Supervisor Sign for and on behalf of SGS Taiwan Limited

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34

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REPORT NO.KA/2006/20923A-01 DATE: 2006/2/22 PAGE: 1 OF 2

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED ON BEHALF OF THE CLIENT AND IDENTIFIED AS :

CLIENT PRODUCT DESCRIPTION SAMPLE TESTING DATE SAMPLE RECEIVED : DING MING INDUSTRY LTD.

- : NICKEL PLATING PRODUCT.
- : AS ATTACHED PHOTO. : 2006/2/15 TO 2006/2/22 .

D : 2006/02/15.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S) UNIT METHOD		MDL	RESULT	
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122 :2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.
PBBs(Polybrominated biphenyls)				
Monobromobiphenyl	%		0.0005	n.d.
Dibromobiphenyl	%	1	0.0005	n.d.
Tribromobiphenyl	%	1 With reference to LISEPA3540C or	0.0005	n.d.
Tetrabromobiphenvl	%	USEDA3550C Applying porformed by	0.0005	n.d.
Pentabromobiphenyl	%	UDI CIDAD I CIMS or CCIMS (prohibited by	0.0005	n.d.
Hexabromobiphenyl	%	2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Heptabromobiphenyl	%		0.0005	n.d.
Octabromobiphenyl	%		0.0005	n.d.
Nonabromobiphenyl	%	1	0.0005	n.d.
Decabromobiphenvl	%		0.0005	n.d.
PBDEs(Polybrominated biphenyl ethers)	-	-		
Monobromobiphenyl ether	%		0.0005	n.d.
Dibromobiphenyl ether	%		0.0005	n.d.
Tribromobiphenyl ether	%	With reference to USEPA3540C or	0.0005	n.d.
Tetrabromobiphenyl ether	%	LISEDA3550C Analysis was notformed by	0.0005	n.d.
Pentabromobiphenyl ether	%	USERASSOUC, Analysis was performed by	0.0005	n.d.
Hexabromobiphenyl ether	%	2002/05/EC (Polle) 82/26//EEC and	0.0005	n.d.
Heptabromobiphenyl ether	%	76/760/EEC)	0.0005	n.d.
Octabromobiphenyl ether	%	10/108/EEC)	0.0005	n.d.
Nonabromobiphenyl ether	%	1	0.0005	n.d.
Decabromobiphenyl ether	%		0.0005	n.d.

NOTE: (1) n.d. = not detected

(2) ppm = mg/kg

(3) MDL = Method Detection Limit



20

Kueilan Chen / Asst. Supervisor Sign for and on behalf of SGS Taiwan Limited

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REPORT NO.KA/2006/20923A-01 DATE: 2006/2/22 PAGE:2 OF 2



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No. SH570049/CHEM

#### Date: 9.29.2005

Page 1 of 2

FLUOTECH INDUSTRIES CO., LTD NO.26, DIN HU 2ST, KUEI-SHAN HSIANG, TAO YUAN HSIEN, TAIWAN

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

Sample Name SGS Ref No. Model Main Substance Material Supplier	: PTFE PART : SHEC0050926317 : ROD/TUBE : FLUOROPOLYMER : PTFE : DAIKIN
Sample Receiving Date Testing Period	: September 26, 2005 : September 26 to September 29, 2005
Test Requested	<ol> <li>1) To determine the Cadmium Content of the submitted sample.</li> <li>2) To determine the Lead content of the submitted sample.</li> <li>3) To determine Mercury Content of the submitted sample.</li> <li>4) To determine Hexavalent Chromium content of the submitted sample.</li> <li>5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submitted sample.</li> </ol>
Test method	<ol> <li>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.</li> <li>With reference to US EPA Method 3050B or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.</li> <li>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 EPA7473 Analysis was performed by Hg Analyzer.</li> <li>With reference to US EPA3060A and US EPA7196A Analysis was performed by UV-VIS Spectrometric method.</li> <li>With reference to USEPA 8081A/8270C/3540C/3550B, Analysis was performed by GC/MS.</li> </ol>
Test Besults	· Dioace refer to peyt page

**Test Results** 

Please refer to next page



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No. SH570049/CHEM

Date: 9.29.2005

Page 2 of 2

Test Results

<u>No.</u>	ltem	Unit	MDL	<u>A*</u>
1	Cadmium (Cd)	ppm	2	N.D.
2	Lead (Pb)	ppm	2	N.D.
3	Mercury (Hg)	ppm	2	N.D.
4	Hexavalent Chromium (Cr VI)	ppm	2	N.D.
	PBBs(Polybrominated biphenyls)			
	PBBs(Bromobiphenyl)	ppm	5	N.D.
	PBBs(Dibromobiphenyl)	ppm	5	N.D.
	PBBs(Tribrcmcbiphenyl)	ppm	5	N.D.
	PBBs(Tetrabromobiphenyl)	ppm	5	N.D.
	PBBs(Pentabromobiphenyl)	ppm	5	N.D.
	PBBs(Hexabromobiphenyl)	ppm	5	N.D.
	PBBs(Heptabromobiphenyl)	ppm	5	N.D.
	PBBs(Octabromobiphenyl)		5	N.D.
	PBBs(Nonabromobiphenyl)	ppm	5	N.D.
5	PBBs(Decabromobiphenyl)	ppm	5	N.D.
5	PBBEs(PBDEs)(Polybrominated biphenyl ethers)			
	PBBEs(PBDEs)(Monobromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Dibromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Tribromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Tetrabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Pentabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Hexabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Heptabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Octabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Nonabromobiphenyl ether)	ррт	5	N.D.
	PBBEs(PBDEs)(Decabromobiphenyl ether)	ppm	5	N.D.

Sample Appearance Description:

A. White solid stick

Note : ppm=mg/kg

MDL= Method Detection Limit N.D. = Not detected.(<MDL) \*Only for reference

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

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SHCH 337489

SGS-CSTC Standards Technical Services (5) 11년 | 1月6月7月8月9月10月30年8月10月30年8月16日 803, Yishan Road, Xuhui District, Shangrai, China 200233 (1+86-21-6140-255612822) (1+86-21-5450-0314) Shangrai Burch Techng Service Owner Latviatory | 中国 上海 徐江区宜出路999号3号楼1楼,6楼,6楼,7楼,8楼,9楼,10楼,94月10楼,93923 (1+85-21-6140-255612822) (1+86-21-5450-0314) www.cn.sgs.com



SYUN-LI APPLIED MATERIALS TECHNOLOGY, INC. 5F, NO. 1 INDUSTRY E. 2 RD. II, SCIENCE-BASED INDUSTRIAL PARK HSINCHU, TAIWAN 
 Report No.
 : CE/2006/11167

 Date
 : 2006/01/12

 Page
 : 1 of 4

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

<u>Type of Product</u>	:	SPCC
Style/Item No	:	SPCC
Sample Received	:	2006/01/05
<u>Testing Date</u>	:	2006/01/05 TO 2006/01/12

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**Conclusion** 

: The test results of Pb, Cd, Hg, Cr+6, PBB and PBDE for the submitted sample comply with the requirements of RoHS (2002/95/EC).

Operation Manager

Signed for and on behalf of SGS TAIWAN LTD.



SYUN-LI APPLIED MATERIALS TECHNOLOGY, INC. 5F, NO. 1 INDUSTRY E. 2 RD. II, SCIENCE-BASED INDUSTRIAL PARK HSINCHU, TAIWAN

:

Report No.	: CE/2006/11167
Date	: 2006/01/12
Page	: 2 of 4

### <u>Test Result</u>

PART NAME NO.1

SILVER COLORED METAL

					PASS
Toot Itom (a);	IInit	Mothod	млі	Result	Limit of
rest item (s):	Unit	Method	WIDL	No.1	ROHS
Monobromobiphenyl	%		0.0005	N.D.	-
Dibromobiphenyl	%		0.0005	N.D.	-
Tribromobiphenyl	%		0.0005	N.D.	-
Tetrabromobiphenyl	%	With reference to	0.0005	N.D.	-
Pentabromobiphenyl	%	USEPA3540C or	0.0005	N.D.	-
Hexabromobiphenyl	%	USEPA3550C. Analysis was	0.0005	N.D.	-
Heptabromobiphenyl	%	LC/MS or GC/MS	0.0005	N.D.	-
Octabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005	N.D.	-
Nonabromobiphenyl	%	(RoHS), 83/264/EEC, and	0.0005	N.D.	-
Decabromobiphenyl	%	76/769/EEC)	0.0005	N.D.	-
Total	%	1	-	N.D.	0.1
PBBs(Polybrominated					
biphenyls)/Sum of above					
Monobromobiphenyl ether	%		0.0005	N.D.	-
Dibromobiphenyl ether	%		0.0005	N.D.	-
Tribromobiphenyl ether	%		0.0005	N.D.	-
Tetrabromobiphenyl ether	%		0.0005	N.D.	-
Pentabromobiphenyl ether	%		0.0005	N.D.	-
Hexabromobiphenyl ether	%	With reference to	0.0005	N.D.	-
Heptabromobiphenyl ether	%	USEPA3540C or USEPA3550C Apolysis was	0.0005	N.D.	-
Octabromobiphenyl ether	%	performed by HPLC/DAD.	0.0005	N.D.	-
Nonabromobiphenyl ether	%	LC/MS or GC/MS.	0.0005	N.D.	-
Decabromobiphenyl ether	%	(prohibited by 2002/95/EC	0.0005	N.D.	-
Total	%	(RoHS), 83/264/EEC, and	-	N.D.	-
PBBEs(PBDEs)(Polybromin		76/769/EEC)			
ated biphenyl ethers)/Sum of above					
Total of Mono to Nona- brominated biphenyl ether. (Note 5)	%		-	N.D.	0.1



SYUN-LI APPLIED MATERIALS TECHNOLOGY, INC. 5F, NO. 1 INDUSTRY E. 2 RD. II, SCIENCE-BASED INDUSTRIAL PARK HSINCHU, TAIWAN 
 Report No.
 : CE/2006/11167

 Date
 : 2006/01/12

 Page
 : 3 of 4

					PASS
Toot Itom (a)	TTeste	Mathad	MDI	Result	Limit of
Test Item (s):	Unit	Method	MDL	No.1	ROHS
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.	1000
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	100
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	1000
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	41.5	1000

NOTE: (1) N.D. = Not detected (<MDL)

- (2) ppm = mg/kg
- (3) MDL = Method Detection Limit
- (4) " " = Not Regulation
- (5) Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.
- (6) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.



SYUN-LI APPLIED MATERIALS TECHNOLOGY, INC. 5F, NO. 1 INDUSTRY E. 2 RD. II, SCIENCE-BASED INDUSTRIAL PARK HSINCHU, TAIWAN 
 Report No.
 : CE/2006/11167

 Date
 : 2006/01/12

 Page
 : 4 of 4





PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report No.: CE/2005/91084A3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL PARK,<br/>HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Date: 2005/09/14Page: 1 of 12

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

<u>Type of Product</u>	:	SILICONE
Style/Item No	:	BASE-P-10; KE-055; KE-520; KE-870; KE-931; KE-941; KE-951; KE-5612; KE-961; KE-971; KE-981; DY32-152U; DY32-7069U; DY32-10000KE080; KET0550; KET-072U; KET-080U; KE-5151U; BY16-140; SH502U A/B; SH1447UA
Sample Received	:	2005/06/21 & 2005/09/07
Testing Date	:	2005/06/21 TO 2005/06/29 &
-		2005/09/07 TO 2005/09/14

<u>Test Result</u>

- Please see the next page -

\* This report is combined with report of CE/2005/64676D \*

**Operation Manager** 

Signed for and on behalf of SGS TAIWAN LTD.

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PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Rep3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL PARK,<br/>HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.DatPage

Report No. : CE/2005/91084A Date : 2005/09/14 Page : 2 of 12

### <u>Test Result</u>

PART NAME NO.1 : BLACK RUBBER SHEET

Toot Itom (a)	TT:: 14	Mathad	MDI	Result
Test Item (s):	Unit	метпоа	MDL	No.1
Asbestos				
Anthrophyllite(CAS NO.017068-78-9)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative
Crocidolite(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):	TTesit	Unit Method	MDL	Result
	Unit			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.
O-AMINOAZOTOLUENE (CAS NO.97-56-3)	ppm	Analysis was performed by GC/MS.	3	N.D.



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL PARK,<br/>HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Date<br/>Page

Report No. : CE/2005/91084A Date : 2005/09/14 Page : 3 of 12

		Method	MDI	Result
Test Item (s):	Unit		MDL	No.1
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.
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.



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report No.: CE/2005/91084A3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL PARK,<br/>HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Date: 2005/09/14Page: 4 of 12

Result Test Item (s): Unit Method MDL No.1 CFC's(Chlorofluorocarbons) With reference to US EPA 8260. Group I Chlorofluorocarbon-11(CAS Analysis was performed by 1 N.D. ppm No:000075-69-4) GC/MS.(CFC's(Chlorofluoroc arbons)) Analysis was performed by Chlorofluorocarbon-12(CAS 1 N.D. ppm No:000075-71-8) GC/MS. [CFC's (Chlorofluorocarbons)] Chlorofluorocarbon-113(CAS Analysis was performed by 1 N.D. ppm No:000076-13-1) GC/MS. [CFC's (Chlorofluorocarbons)] Chlorofluorocarbon-114(CAS Analysis was performed by 1 N.D. ppm No:000076-14-2) GC/MS. [CFC's (Chlorofluorocarbons)] Chlorofluorocarbon-115(CAS Analysis was performed by 1 N.D. ppm No:000076-15-3) GC/MS. [CFC's (Chlorofluorocarbons)] Group III Chlorofluorocarbon-13(CAS Analysis was performed by 1 N.D. ppm No:000075-72-9) GC/MS. [CFC's (Chlorofluorocarbons)] Chlorofluorocarbon-111(CAS Analysis was performed by 1 N.D. ppm No:000354-56-3) GC/MS. [CFC's (Chlorofluorocarbons)] Chlorofluorocarbon-112(CAS Analysis was performed by 1 N.D. ppm No:000076-12-0) GC/MS. [CFC's (Chlorofluorocarbons)] Chlorofluorocarbon-211(CAS Analysis was performed by 1 N.D. ppm No:135401-87-5) GC/MS. [CFC's (Chlorofluorocarbons)] Analysis was performed by Chlorofluorocarbon-212(CAS 1 N.D. ppm No:076564-99-3) GC/MS. [CFC's (Chlorofluorocarbons)]

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GC/MS. [CFC's

Analysis was performed by

(Chlorofluorocarbons)]

1

N.D.

ppm

Chlorofluorocarbon-213(CAS

No:060285-54-3)



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD. 3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL PARK, Date HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C. Page

Report No. : CE/2005/91084A : 2005/09/14 : 5 of 12

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

Test Item (s);	IInit	Method	MDI	Result
iest item (s).	ome	Method	MIDL	No.1
Chlorinated Paraffin	%	With reference to	0.01	N.D.
(C10~C13) (CAS NO:010871-		USEPA3540C or		
26-2)		USEPA3550C. Analysis was		
		performed by GC/MS or		
		GC/ECD.		

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

Track Itam (a)	TTesit		MDI	Result
Test Item (s):	Unit	Method	MDL	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.



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report No.: CE/2005/91084A3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL PARK,<br/>HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Date: 2005/09/14Page: 6 of 12

<b>_</b>	II			Result
Test Item (s):	Unit	Method	MDL	No.1
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.
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.



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report No.: CE/2005/91084A3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL PARK,<br/>HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Date: 2005/09/14Page: 7 of 12

The set The set (s)	Unit Mothod	MDI	Result	
Test Item (s):	Unit	Method	MDL	No.1
Hydrochlorofluorocarbon- 222(CAS No.:000422-30-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
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.



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report No.: CE/2005/91084A3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL PARK,<br/>HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Date: 2005/09/14Page: 8 of 12

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



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report No.: CE/2005/91084A3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL PARK,<br/>HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Date: 2005/09/14Page: 9 of 12

Test Item (s);	TTesit	Mathad	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Hydrochlorofluorocarbon- 271	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.

Track Itam (a)	TTesid	Mathad	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Mirex(CAS NO:002385-85-5)	ppm	Analysis was performed by GC/MS.	4	N.D.

Toot Itom (a)	TTesit	Mathed	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Organic-tin coumpounds				
Triphenyl Tin(TPT)(CAS NO:000668-34-8)	ppm	With reference to 89/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	N.D.
Tributyl Tin(TBT)	ppm	With reference to 89/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	N.D.

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

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

Toot Itom (a):	IInit	Unit Method MDI		Result
rest item (s).	ome	Method	MIDL	No.1
PVC (CAS No:9002-86-2)	**	Analysis was performed by FTIR/ATR and Pyro-GC/MS.	-	Negative



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report No.: CE/2005/91084A3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL PARK,<br/>HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Date: 2005/09/14Page: 10 of 12

	TT 14	36.43.43	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Arsenic (As)	ppm	ppm ICP-AES after reference to US EPA 3050B or other acid digestion.		N.D.
Beryllium (Be)	ppm	ppm ICP-AES after reference to US EPA 3050B or other acid digestion		N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Nickel (Ni)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.
Antimony (Sb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.
Tellurium (Te)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

Tost Itom (a);	IInit	Mathad	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Halon		With reference to US EPA 8260.		
Halon-1211	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Halon-1301	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Halon-2402	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD. 3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL PARK, HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2005/91084A Date : 2005/09/14 Page : 11 of 12

Toot Itom (a)	TTes	Mathad	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Monobromobiphenyl	%		0.0005	N.D.
Dibromobiphenyl	%	1	0.0005	N.D.
Tribromobiphenyl	%	] [	0.0005	N.D.
Tetrabromobiphenyl	%	With reference to	0.0005	N.D.
Pentabromobiphenyl	%	USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl	%	USEPA3550C. Analysis was	0.0005	N.D.
Heptabromobiphenyl	%	performed by HPLC/DAD,	0.0005	N.D.
Octabromobiphenyl	%	LC/MS or GC/MS.	0.0005	N.D.
Nonabromobiphenyl	%	(PoHS) 83/264/FEC and	0.0005	N.D.
Decabromobiphenyl	%	76/769/EEC)	0.0005	N.D.
Total PBBs	%		-	N.D.
(Polybrominated				
biphenyls)/Sum of above				
Monobromobiphenyl ether	%		0.0005	N.D.
Dibromobiphenyl ether	%	1	0.0005	N.D.
Tribromobiphenyl ether	%	1 [	0.0005	N.D.
Tetrabromobiphenyl ether	%	With reference to	0.0005	N.D.
Pentabromobiphenyl ether	%	USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl ether	%	USEPA3550C. Analysis was	0.0005	N.D.
Heptabromobiphenyl ether	%	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.
Octabromobiphenyl ether	%		0.0005	N.D.
Nonabromobiphenyl ether	%		0.0005	N.D.
Decabromobiphenyl ether	%		0.0005	N.D.
Total PBBEs(PBDEs)	%		-	N.D.
(Polybrominated biphenyl ethers)/Sum of above				

Test Item (s);	IInit	Mathad	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
PCTs(Polychlorinated Terphenyls)	ppm	Analysis was performed by GC/MS or GC/ECD.	0.5	N.D.



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report No.: CE/2005/91084A3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL PARK,<br/>HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Date: 2005/09/14Page: 12 of 12

Toot Itom (a)	TTesit	Mathad	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Halogen		As per EN14582 method B.		
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.
Halogen-Fluorine (F)(CAS No:007782-41-4)	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-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-Iodine (I)(CAS No:007553-56-2)	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.

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



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report No.: CE/2006/406033F, NO. 99, WU KONG ROAD, WU KU INDUSTRIALDate: 2006/04/11PARK, HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Page: 1 of 5

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

<u>Type of Product</u>	:	PIONEER 5000A
Sample Received	:	2006/04/03
<u>Testing Date</u>	:	2006/04/03 TO 2006/04/11

\_\_\_\_\_

<u>Test Result</u>

- Please see the next page -

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



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD. Report No. : CE/2006/40603 3F, NO. 99, WU KONG ROAD, WU KU INDUSTRIAL : 2006/04/11 Date PARK, HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C. Page : 2 of 5

### **Test Result**

PART NAME NO.1

:

TRANSPARENT TWIN ADHESIVE

Toot Itom (a)	TTmit	Wathod	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Monobromobiphenyl	%		0.0005	N.D.
Dibromobiphenyl	%		0.0005	N.D.
Tribromobiphenyl	%	With reference to	0.0005	N.D.
Tetrabromobiphenyl	%	USEPA3540C or	0.0005	N.D.
Pentabromobiphenyl	%	USEPA3550C. Analysis	0.0005	N.D.
Hexabromobiphenyl	%	was performed by	0.0005	N.D.
Heptabromobiphenyl	%	HPLC/DAD, LC/MS or	0.0005	N.D.
Octabromobiphenyl	%	GC/MS. (prohibited by	0.0005	N.D.
Nonabromobiphenyl	%	2002/95/EC (RoHS),	0.0005	N.D.
Decabromobiphenyl	%	83/264/EEC, and 76/769/FFC)	0.0005	N.D.
Total PBBs	%	10/109/EEC)	-	N.D.
(Polybrominated				
biphenyls)/Sum of above				
Monobromobiphenyl ether	%		0.0005	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.
Tetrabromobiphenyl ether	%		0.0005	N.D.
Pentabromobiphenyl ether	%	With reference to USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl ether	%		0.0005	N.D.
Heptabromobiphenyl ether	%	USEPA3550C. Analysis	0.0005	N.D.
Octabromobiphenyl ether	%	HPLC/DAD_LC/MS or	0.0005	N.D.
Nonabromobiphenyl ether	%	GC/MS. (prohibited by	0.0005	N.D.
Decabromobiphenyl ether	%	2002/95/EC (RoHS),	0.0005	N.D.
Total PBBEs(PBDEs)	%	83/264/EEC, and	-	N.D.
(Polybrominated biphenyl ethers)/Sum of above		76/769/EEC)		
Total of Mono to Nona- brominated biphenyl ether. (Note 4)	%		-	N.D.



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report No.: CE/2006/406033F, NO. 99, WU KONG ROAD, WU KU INDUSTRIALDate: 2006/04/11PARK, HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Page: 3 of 5

			MDI	Result
lest item (s):	Unit	Μετποά	MDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to 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) Decabromobiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.
  - (5) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.
  - (6) " " = Not Regulation



PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report No.: CE/2006/406033F, NO. 99, WU KONG ROAD, WU KU INDUSTRIALDate: 2006/04/11PARK, HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Page: 4 of 5

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Anren Lee
- 3) Name of the person in charge of measurement: Daniel Yeh

#### Flow Chart of Digestion for Plastic - EN1122 for Cd (residue left)





PIONEER CONDUCTOR RUBBER INDUSTRIAL CO., LTD.Report No.: CE/2006/406033F, NO. 99, WU KONG ROAD, WU KU INDUSTRIALDate: 2006/04/11PARK, HSIN CHUANG, TAIPEI HSIEN, TAIWAN, R. O. C.Page: 5 of 5

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Anren Lee
- 3) Name of the person in charge of measurement: Daniel Yeh

### Flow Chart of Digestion for Plastic - Wet Decomposition for Pb (residue left)



### 未使用有害物質保證書

Release Date : 2005/11/16



茲提出此保證書,保證本公司所生產或代理提供之產品不含有附錄中禁用之各項有害物質/符合附錄中各項有害物質之用量限制。

Provided this Guarantee Letter to ensure our manufacture / represent products without appendix harmful substance.

增補條款:本公司保證所生產或代理提供之產品不含有附錄中禁用之有害物質 或符合附錄中有害物質之用量限制。

供應商料號 (Vendor P/N)	中磊料號 (SerComm P/N)	供應商料號 (Vendor P/N)
C147-510242-A		
-	供應商料號 (Vendor P/N) C147-510242-A	供應商料號 中磊料號 (Vendor P/N) (SerComm P/N) C147-510242-A

如經檢驗發現所述不實,願負責賠償<u>中磊電子股份有限公司</u>之所有損失。 If any outside the limits of the practical after test and verify, Company shall indemnify SerComm all losses, damages and the associated expenses and costs no matter how much incurred.

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立保證書(Submit by)

S42

公司名稱 (Company): 譁裕實業股份有限公司

負責人 (Chairman): 林祺生

地址 (Address): 新竹市公道五路二段 326 號

電話(Telephone):03-5714225

簽章 (Autographed seal):林祺生

此致

中磊電子股份有限公司



西元 2006 年7 月 6日

附件(Appendix ):禁用物質(Prohibited Substances in Products)

	For Device	For Packing	
Substances	Criteria Level A	Criteria Level B	
Mental			
Cadmium and Cadmium Compounds	100 ppm	100 ppm	
Hexavlent Chromium Compounds	1000 ppm	100 ppm	
Lead and Lead Compounds	1000 ppm ( PVC Cables < 300ppm )	100 ppm	
Mercury and Mercuey Compounds	1000 ppm	100 ppm	
Tributyl Tin Oxide (TBTO)	Intentionally added		
Tributyl Tin (TBT) and Triphenyl Tin (TPT)	Intentionally added		
Halogenated organic componds			
Polybrominated Biphenyls (PBBs)	1000 ppm		
Polybrominated Diphenylethers (PBDEs)	1000 ppm		
Polybrominated Biphenyls (PCBs)	Intentionally added		
Polychlorinated Naphthalenes (more than 3 chlorineatoms)	Intentionally added		
Short Chain Chlorinated Paraffins	Intentionally added		
Others			
Asbestos	Intentionally added		
Azo Colorants	Intentionally added		
Ozone Depleting Substances	Intentionally added		
Radioactive Substances	Intentionally added		



S45



Date	2006.07.06		
Supplier Company Name(供應商名稱)	譁裕實業股份有限公司		
Supplier Product Name(供應商品名)	RF Cable Assembly	Sercomm Product Name(中磊品名):	
Supplier Product Part Number (供應商料號)	C147-510242-A	Sercomm Product Part#(中磊料號):	
Product Total Mass (產品總重) (g):	213.22		
Contact Name (聯絡人姓名):	陳世忠		
Division and TiTle(單位與職稱):	研發處/副總經理		
Material/Substance Category Name	ICP TEST Results (ppm)	Material Substance Mass(g)	RoHS Criteria
Asbestos (石綿)	0	0	Intentionally added
Azo Colorants (偶氮化合物, 著色劑)	0	0	Intentionally added
Cadmium and Cadmium Compounds	0.562679392	0.1199745	100 ppm
Hexavalent Chromium/Hexavalent Chromium Compounds	0	0	1000 ppm
Lead and Lead Compounds	862.0092463	183.7976115	1000 ppm (PVC Cables < 300ppm)
Mercury and Mercuey Compounds	0	0	1000 ppm
Ozone Depleting Substances (臭氧破壞物質)	0	0	Intentionally added
Polybrominated Biphenyls (PBBs) (多溴聯苯)	0	0	1000 ppm
Polybrominated Diphenylethers (PBDEs) (多溴二苯醚)	0	0	1000 ppm
Polybrominated Biphenyls (PCBs) (多氨聯苯)	0	0	Intentionally added
Polychlorinated Naphthalenes(cl>3) 多氯化萘	0	0	Intentionally added
Radioactive Substances (幅射物質)	0	0	Intentionally added
Short Chain Chlorinated Paraffins (短鍵氯化石臟)	0	0	Intentionally added
Tributyl Tin Oxide (TBTO) 三丁基氧化錫	0	0	Intentionally added
Tributyl Tin (TBT) and Triphenyl Tin(TPT) 三丁基錫與三	0	0	Intentionally added

Remark: 1. When ICP Test Result is N.D.(Not Detected), put "0" into column. 2. Intentionally ADDed, put on the concentration values.

NON-intentionally ADDed, put "0" into column.
 The Criteria for p