承 認 書 SPECIFICATION FOR APPROVAL

客 戶 CUSTOMER	易通達科技股份有限公司
日 期 DATE	2008/3/17
品 名 DESCRIPTION	WSS006 2.4GMHz Dipole Antenna with RP-SMA(M)(Silver)(Dupont LS033)
客 戶 料 號 CUSTOMER P/N	
成品編號	YSW1900A1

Part No.

萬旭電業股份有限公司 WANSHIH ELECTRONIC CO., LTD. 台北縣五股鄉五工六路 72 號 3 樓

3F 72 WU KONG 6TH RD., WU KU INDUSTRIAL DISTRICT TAIPEI HSIEN, TAIWAN,R.O.C.

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SPECIFICATION

1. Description : WSS006 2.4GHz Dipole Antenna

2. Customer : 易通達科技股份有限公司

3. Model No. : WSS006

4. Part No. : YSW1900A1

5. Standard : IEEE 802.11b/g Wireless LAN

6. Antenna Profile : 108 mm length (see Drawing)

7. Color : White, Dupont LS033

8. Electrical Characteristics

Operating Frequency : 2.4~2.5GHz

Antenna Type : 1/4λ Dipole Sleeve

Polarization Type : Linear Type of Radiation : Toroidal

Peak Gain : 2.27 dBi Max Impedance : 50 Ohm nominal

V.S.W.R. : 2.0:1 Max.

9. Mechanical Characteristics

Action : Swivel Type

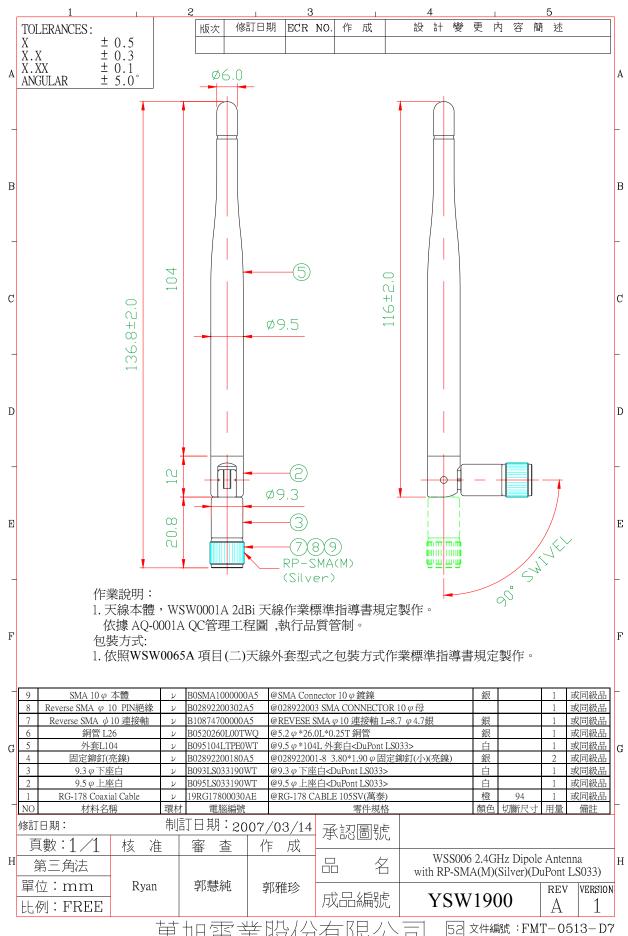
Connector : RP-SMA(M) (Silver)

Core : N/A

10. Raw Material

Coaxial Cable : RG-178 Housing : TPU

Hinge : PC+ALLOY



萬旭電業股份有限公司

Connector/Rivet



测试报告 编号: GZ0701002987/CHEM 日期: 2007年1月10日 页码1 of 3

佛山市南海信兴铜业有限公司 佛山市南海区大沥奇槎铺前工业区

以下测试之样品是由申请者所提供及确认: 3604 快削铜条

SGS 参考编号: GC070100011-1收板日期: 2007 年 1 月 4 日

测试日期 : 2007 年 1 月 4 日至 2007 年 1 月 10 日

测 试 要 求 : 按照 RoHS 指令 2002/95/EC 及其修订文件要求进行测试。

测 试 方 法 :参照 IEC 62321 Ed.1 111/54/CDV 电子电器产品中限用物质含量的测定程序

(1) 用 ICP 测定镉的含量 (2) 用 ICP 测定铅的含量 (3) 用 ICP 测定汞的含量

(4) 用比色法测定六价铬的含量

测 试 结 果 : 请参见下一页

测 试 结 论 :基于所送样品进行的测试,测试结果与欧盟 RoHS 指令 2002/95/EC 以及后续修正指令的要

求不相符。

Signed for and on behalf of SGS-CSTC Ltd.

Jiang YongPing, Terry

Sr. Engineer

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测试报告

编号: GZ0701002987/CHEM

日期:2007年1月10日 页码2 of 3

测试结果 (单位:毫克/千克):

测试项目	参考方法	No.1	MDL	RoHS 限值
镉 (Cd)	(1)	31	2	100
铅 (Pb)	(2)	30648*	2	1000
汞 (Hg)	(3)	N.D.	2	1000
点测试法测六价铬(Cr VI)	(4)	Negative	参见 注释 4	#

测试部件描述:

No.1 金色金属棒

注释:1. 毫克/千克 = ppm

- 2. N.D.= 未检出 (< MDL)
- 3. MDL = 方法检测限
- 4. 点测试:

Negative = 未检测到六价铬, Positive = 检测到六价铬;

(如果点测试结果不能确认,测试样品将进一步由沸水萃取法进行测试)。

沸水萃取法:

Negative = 未检测到六价铬

Positive = 检测到六价铬,每 $50\,\mathrm{cm}^2$ 表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于 $0.02\mathrm{mg/kg}$ 。

- 5. # Positive = 阳性,表示结果与 RoHS 要求相抵触 Negative = 阴性,表示结果与 RoHS 要求不相抵触
- 6. *: 表示超过限值
- 7. 本测试报告内容是参照报告编号为 GZ0701000033/CHEM 的中文译本,中英文版本如有歧异,概以英文版为准。

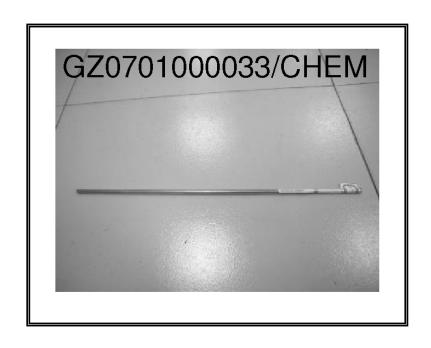
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编号: GZ0701002987/CHEM 日期: 2007年1月10日 页码3 of 3

样品照片:



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Test Report No.: GZ0612183017/CHEM Date: DEC 15, 2006 Page 1 of 3

SHENZHEN CITY LIANFENG METAL PLASTIC PRODUCE CO., LTD. 1129 WORKSHOPS LIULIAN LAOWEI VILLAGE INDUSTRIAL AREA, PINGDI TOWN, LONGGANG DISTRICT, SHENZHEN

Report on the submitted sample said to be 镀金产品

SGS Ref No. : GZ10173051EC-3.3

Sample Receiving Date : DEC 11, 2006

Testing Period : DEC 11, 2006 TO DEC 15, 2006

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

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products

- (1) Determination of Cadmium by ICP.
- (2) Determination of Lead by ICP.
- (3) Determination of Mercury by ICP.
- (4) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample(s), the results comply with the RoHS

Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of

SĞS-CSTC Ltd.

Jiang YongPing, Terry

Sr. Engineer

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

Test Item(s):	Method (refer to)	No.1	MDL	RoHS Limit
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI) by Spot test	(4)	Negative	See Note 4	#

Test Part Description:

No.1 Golden plated metal

Note: 1. mg/kg = ppm

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

3. MDL = Method Detection Limit

4. Spot-test:

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

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

Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

5. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.

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Sample photo:



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建式报告

编号: GZ0602018645/CHEM

出期 #1806年2月27日 页码 1 of 1

L

深圳市联本五金塑胶制品有限公司 1129 车间 深圳市龙岗区环地镇大联老院搬天工业区

本报告是基于质是使的名称为"镍药水"的样品质量的累试

SGS参考银号

· ; GZ060203616EC-4.1

收板日期

: 2008年2月23日

亲试什么

: 2006年2月23日至2006年2月27日

器装要求

; 委托器减撑品中的组。需。所和内价的含量。

据认方达

: 铅含量 - 参照 EPA 方法 3050B:1998/其它嵌痕部。

省合量 - 参照 BS EN1122;2001 方法 B/其它酸液解。

录含量 -- 参照 EPA 方数 3052:1898/7473:1898/英它酸清解。 六价格含量 -- 参照 EPA 方法 3060A:1998 和 7198A;1992。 分析仅添为火炬原子吸吸光谱及(AAS)/电镀耦合等离子体及射光谱仪

(ICP-AES)/搬乘仪/蒙外公光光度计(UV-Vis)。

测试均是

序目	单位	2002	建色数件
粉 (Pb)	bbu	2	N.D.
# (Cd)	ppm	2	N.O.
汞 (Hg)	ppm	2	N.D.
六价格[Cr(VI)]	ppnt	2	N.D.

说明:-N.D.=未检出(< MDL)

- MCML = 方法检测器

~ ppm = 毫克/子克

*** 报告完 ***

Signed for and on bahalf of SGS-CSTC Ltd.

Hueng Fang, Sunny Sr. Engineer



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Date: Jun. 2, 2006

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Test Method

- ; 1) In house method, Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
- 2) In house method, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.
- 3) With reference to EPA Method 3060A & 7196A. The samples were alkaline digested by using EPA Method 3080A, and then analyzed by using Colorimetric method 7196A
- 4)With reference to USEPA 8081A/8270D/3540C/3550C, Analysis was performed by GC/MS.
- 5) With reference to US EPA 8082, Analysis was performed by GC/MS.
- 6) With reference to US EPA 8081, Analysis was performed by GC/MS.
- 7) With reference to US EPA 8081, Analysis was performed by GC/MS.
- 8) With reference to US EPA 8081, Analysis was performed by GC/MS. 9)**As per NIOSH 9000 method. Analysis was performed by XRD.
- 10***As per EN14362-2:2003 & § 35 LMBG 82.02.Z (July 2004) -Extraction lest on coloured textile - Detection of the use of certain azo colorants are accessible to reducing agents without extraction with the use of Gas Chromatographic Mass Spectrometry (GC-MS)/Thin Layer Chromatography (TLC) Technique.

<u>No.</u>	esults : Item	Unit	<u>DL</u>	<u>A</u>
1701	Cadmium (Cd)*	mg/kg	2	N.D.
1	Lead (Pb)*	mg/kg	2	N.D.
2	Mercury (Hg)*	mg/kg	2	N.D.
3	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.
4	Polybrominated biphenyls (PBBs)			
•	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	. 5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.
	Polybrominated biphenyl ethers (PBBEs(PBDEs))			
	Monobromobiphenyl ether	mg/kg	5	N.D.

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Test Report

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Dibromobiphenyl ether	mg/kg	5	N.D.
Tribromobiphenyl ether	mg/kg	5	N.D.
Tetrabromobiphenyl ether	mg/kg	5	N.D.
Pentabromobiphenyl ether	mg/kg	5	N.D.
Hexabromobiphenyl ether	mg/kg	5	N.D.
Heptabromobiphenyl ether	mg/kg	5	N.D.
Octabromoblphenyl ether	mg/kg	5	N.D.
Nonabromobiphenyl ether	mg/kg	5	N.D.
Decabromobiphenyl ether	· mg/kg	5	N.D.

No.	<u>Item</u>	<u>Unit</u>	DL	Α
5	PCBs(Polychlorinated Biphenyls) Content			
	2.4.4'-Trichlorobiphenyl (PCB 28) CAS 7012-37-5	mg/kg	0.5	N.D.
	2.2'.5.5'-Tetrachioro-biphenyl (PCB 52) CAS 35693-99-3	mg/kg	0.5	N.D.
	2.2'.4.5.5'-Pentachloro-biphenyl (PCB 101) CAS 37680-73-2	mg/kg	0.5	N.D.
	2.3'.4.4'.5-Pentachlorobiphenyl (PCB 118) CAS 31508-00-6	mg/kg	0.5	N.D.
	2.2'3.4.4'.5'-Hexachloro-biphenyl (PCB 138) CAS 35065-28-2	mg/kg	0.5	N.D.
	2.2'.4.4'.5.5'-Hexachloro-biphenyl (PCB 153) CAS 35065-27-1	mg/kg	0.5	N.D.
	2.2'.3.4.4'.5.5'-Heptachlorobiphenyl (PCB 180) CAS 35065-29-3	mg/kg	0.5	N.D.
6	Polychlorinated Naphthalene Content			***
	2-Chlorinated Naphthalene	mg/kg	5	N.D.
	1,4-Dichlorinated Naphthalene	mg/kg	5	N.D.
	1,5-Dichlorinated Naphthalene	mg/kg	5	N.D.
	1,2-Dichlorinated Naphthalene	mg/kg	5	N.D.
	1,8-Dichlorinated Naphthalene	mg/kg	5	N.D.
	1,2,3,4-Tetrachlorinated Naphthalene	mg/kg	5	N.D.
	Octa-chlorinaed Naphthalene	mg/kg	5	N.D.
7	Short Chain Chlorinated Paraffin	mg/kg	30	N.D.
8	Mirex	mg/kg	0.5	N.D.

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No. SH6060096/CHEM

Date: Jun. 2, 2006

<u>No.</u>	Test tem(s):	Unit	<u>DL</u>	Result <u>A</u>
	Asbestos		-	
	Anthrophyllite(CAS NO.017068-78-9)	%	1	Negative
	Crocidolite(CAS NO.012001-28-4)	%	1	Negative
9**	Amosite(CAS NO.012172-73-5)	%	1	Negative
•	Tremolite(CAS NO.014567-73-8)	%	1	Negative
	Chrysotile(CAS NO.012001-29-5)	%	1	Negative
	Actinolite(CAS NO.013768-00-8)	%	1	Negative

Note: Negative =<1.0%, Positive= >1.0%

10***To detection and determination of certain listed aromatic amines derived from Azo Colorants.

No. Forbidden Amines Substances	CAS-No.	<u>Result</u> <u>A</u>
1. 4-aminodiphenyl/xenylamine/	92-67-1	N.D.
Biphenyl-4-ylamine		
2. Benzidin	92-87-5	N.D.
3. 4-chlor-o-toluidine	95-69-2	N.D.
4. 2-naphthylamine	91-59-8	N.D.
5: o-aminoazotoluene/	97-56-3	
4-o-tolylazo-o-toluidine/		N.D.
4-amino-2',3-dimethylazobenzene		
6. 2-amino-4-nitrotoluol/5-nitro-o-toluidine	99-55-8	N.D.
7. p-chloranilin/4-chloroaniline	106-47-8	N.D.
8. 2,4-diaminoanisol/	615-05-4	N,D.
4-methoxy-m-phenylenediamine	101 77 4	
9. 4,4'-diaminodiphenylmethane/	101-77-9	N.D.
4,4-methylenedianiline	04.54.4	
10. 3,3'-dichlorobenzidine/	91-94-1	N.D.
3.3'dichlorobiphenyl-4,4'-ylenediamine		
11 3 3'-dimethoxybenzidine/o-dianisidine	119-90-4	N.D.
12. 3.3'-dimethybenzidine/4,4'-bi-o-Toluidine	119-93-7	N.D.
13. 3.3'-dimethyl-4,4'-diaminodiphenylmethane/	838-88-0	N.D.
4,4'-methylenedi-o-toluidine	400.74.0	N.D.
14. p-cresidin/6-methoxy-m-toluidine	120-71-8	
15. 4,4'-methylen-bis-(2-chloro-aniline)/	101-14-4	N.D.
2,2'-dichloro-4,4'methylene-dianiline	104 70 4	NO
16. 4,4'-oxydianiline	101-80-4	N.D.
17. 4,4'-thiodianiline	139-65-1	N.D.
18. o-toluidine/2-aminotoluene	95-53 -4	N.D.
19. 2,4-toluylendiamin/	95-80-7	N.D.
4-methyl-m-phenylenediamine		AL D
20. 2,4,5-trimethylaniline	137-17-7	N.D.
21. 4-aminoazobenzene ◆	60-09-3	N.D.
22. o-anisidine/ 2-methoxyaniline	90-04-0	N.D.
23. 2,4-Xylidin	95-68-1	N.D.
24. 2.6-Xylidin	87-62-7	N.D.

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No. SH6060096/CHEM

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Overall Rating

Relevant Requirement (2002/61EC)

No relevant amine exceeding 30 ppm (mg/kg).

Note: N.D.= not detectable

Detection Limit = 5 ppm (mg/kg)

Remark: For textiles no relevant amine exceeding 30ppm (mg/kg) is required, the test method is a applicable fox textile and the result is only for client information.

♦: the En 14362-2 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1-4-phenylenediamine, therefore, the test method of § 35 LMBG 82.02.Z was employed to verify the presence of 4-aminoazobenzene

Forbidden Arylamines for Azo Dye Regulations

No, 1-22-Commission of the European Communities: Directive 2002/61/EC adopted by the Council on19 July 2002

No. 1-20, 22-24- Client requirement

Sample Appearance Description(Photo see appendix)

A. White plastic bar

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

DL= Detection Limit

N.D. = Not detected

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

Negative = Undetectable / Positive = Detectable.

*Only for reference.

**These tests were subcontracted to SGS Taiwan Ltd (Date of testing: 2006/05/24-06/02).

***These tests were subcontracted to SGS-SHSL TEXTLIE LAB (Date of testing: 2006/05/22-06/02).

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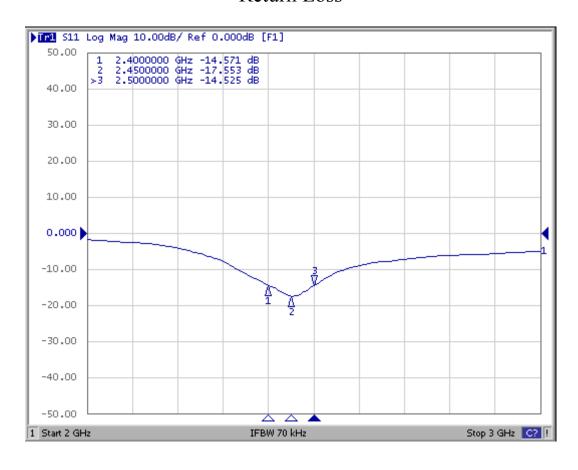
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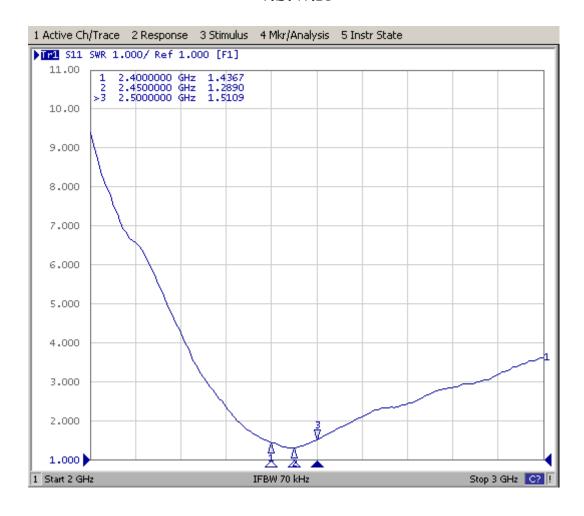
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Return Loss



V.S.W.R



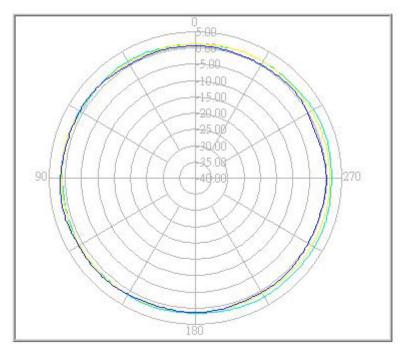
Radiation Pattern – H Plane

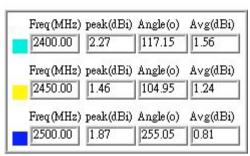


萬旭電業股份有限公司

Model No: 2.4-2.5-白色 Antenna Position: Vertical

Test Mode: H-Plane





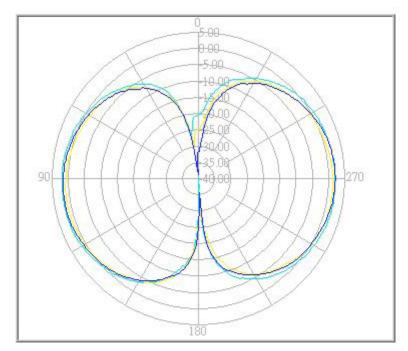
Radiation Pattern – E Plane

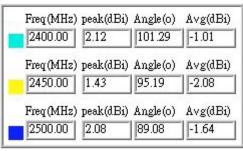


萬旭電業股份有限公司

Model No: 2.4-2.5-白色 Antenna Position: Horizontal

Test Mode: E-Plane





Coaxial Cable Data Sheet RG-178

SPECIFICATION FOR APPROVAL

DOCUMENT: A30178B001

STYLE: 105° C 30V

RG-178B/U

SIZE: 7/0.102 SCCS

RECOGNIZED: UL 1979



WONDERFUL HI-TECH CO.,LTD

OFFICE: 72WU KONG 6TH ROAD, FACTORY: 17 PEI YUAN ROAD,

WU KU IND. DISTRICT CHUNG-LI IND. PARK TAIPEI HSIEN, TAIWAN TAIWAN, R.O.C.

EI HSIEN, TAIWAN TAIWAN, R.O.C

TEL: (02)22988033 TEL: (03)4527777 FAX: (02)22988031-2 FAX: (03)4517214

WONDERFUL HI-TECH CO., LTD SPECIFICATION

CTVI E	105°C 30V	DOCUN	MENT NO:
STYLE	UL1979	A30178	B001
SIZE	RG-178B/U	ESTABI	LISHED DATE:
SIZE	KU-1/0D/U	2004/03	/22
STANDAR	D : MIL-C-17		
	Size	AWG	30
Conductor	Material		Silver-Coated Copper Clad Steel
	Conductors No.		7
	Conductors Size	mm	0.102
	O.D.	mm	0.30
	Average Thickness	mm	0.28
Insulation	Diameter	mm	0.86 ±0.03
	Material		FEP
	Color		Clear
Braid	Material		Silver-Coated Copper
Braid	Construction	mm	16 / 3 / 0.10
	Coverage	%	95
	Average Thickness	mm	0.25
Jacket	Diameter	mm	1.80 ±0.05
	Material		FEP
	Color		Brown
Marking			
Drawing	88		
A 72001 (010320)			DACE . 1

AK001/210X297/1.0 PAGE: 1

EDITION: 1.2

MAKER: C.Y.CHEN CONFIRM: S.N.WONG APPROVAL: W.J.WANG

WONDERFUL HI-TECH CO., LTD. SPECIFICATION

Electrical & Physical Properties					10/11			
Item					RG-178B/U			
Rating Ter	Rating Temp Voltage				105℃	30V		
Conductor Resistance				838	OHM/KN	I/20°C M	AX.	
Insulation Resistance				3000 I	MEGA OF	HM/KM N	IIN.	
Dielectric Strength				AC 50	00V/Minu	te		
Spark Test			2.5 K	V				
Linasad		Ten	sile Strens	gth	2500]	PSI MIN.(1.76 Kg/	m m³)
Insulation	Unaged	Elo	ngation		200% MIN.			
	Aged	Ten	Tensile Strength UNAGED MIN 75%(168HRS×23			RS×232℃)		
	Ageu	Elo	ngation		UNAGED MIN 75%(168HRS×232°C)			
	Unaged	Ten	sile Streng	gth	h 2500 PSI MIN.(1.76 Kg/ m n			mm²)
Jacket	Onaged	Elongation			200% MIN.			
	Aged	Ten	sile Streng	gth	UNAG	ED MIN.7	5%(168H)	RS×232℃)
	Agou	Elongation			UNAGED MIN.75%(168HRS×232°C)			
Nom. Imp	edance				50 Ohms			
Nom. Cap	acitance				95.8 pF/m			
Nom. Vel. of Prop.				69.5%				
VSWR (VSWR (0 – 6 GHZ)				UNDI	ER 1.3		
Attenuatio		ΙΗz	1GHz	1.8	8GHz	2.4GHz	5.2GHz	6GHz
(dB/100m)) 46		155		295	340	505	550

AK001/210X297/1.0

PAGE:2

EDITION: 1.2

MAKER: C.Y.CHEN CONFIRM: S.N.WONG APPROVAL: W.J.WANG



WONDERFUL HI-TECH CO., LTD. NO. 17, PEI-YUAN ROAD, CHUNG-LI IND, PARK,

TAOYUAN TAIWAN, R. O. C.

Report No. : CS/2006/60408

Date : 2006/06/21

Page : 1 of 5

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

<u>Type of Product</u> : RF COAXIAL CABLE

Style/Item No : RG-316/U, RG-179/U, RG-178B/U, RF405A

Test Result : - Please see the next page -

* This report is combined with reports of CE/2006/64545 & CE/2006/10628 *

Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

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SGSTAIWAN LIMITED

NO. 136-1, Wu Kung Road, WuKu Industrial Zone, Taipei county, Taiwan.

NO. 136-1, Wu Kung Road, WuKu Industrial Zone, Taipei county, Taiwan t(886-2) 229939391(886-2) 2299-3237 www.sgs.com.tw



Report No. : CS/2006/60408 WONDERFUL HI-TECH CO., LTD. NO. 17, PEI-YUAN ROAD, CHUNG-LI IND, PARK, Date : 2006/06/21

TAOYUAN TAIWAN, R. O. C. Page : 2 of 5

Test Result

PART NAME NO.1 : ORANGE PLASTIC JACKET (CE/2006/64545)

PART NAME NO.2 : SILVER COLORED METAL WIRE (CE/2006/10628 NO.1) PART NAME NO.3 : TRANSPARENT PLASTIC INSULATION (CE/2006/10628 NO.2) PART NAME NO.4 : SILVER COLORED METAL WIRE (WEAVED) (CE/2006/10628 NO.3)

				Result			
Test Item (s):	Unit	Method	MDL	No.1	No.2	No.3	No.4
Monobromobiphenyl	%		0.0005	N.D.		N.D.	
Dibromobiphenyl	%		0.0005	N.D.		N.D.	
Tribromobiphenyl	%		0.0005	N.D.		N.D.	
Tetrabromobiphenyl	%	With reference to	0.0005	N.D.		N.D.	
Pentabromobiphenyl	%	USEPA3540C or	0.0005	N.D.		N.D.	
Hexabromobiphenyl	%	USEPA3550C. Analysis was performed by HPLC/DAD,	0.0005	N.D.		N.D.	
Heptabromobiphenyl	%	LC/MS or GC/MS.	0.0005	N.D.		N.D.	
Octabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005	N.D.		N.D.	
Nonabromobiphenyl	%	(RoHS), 83/264/EEC, and	0.0005	N.D.		N.D.	
Decabromobiphenyl	%	76/769/EEC)	0.0005	N.D.		N.D.	
Total PBBs	%		-	N.D.		N.D.	
(Polybrominated							
biphenyls)/Sum of above							
Monobromobiphenyl ether	%		0.0005	N.D.		N.D.	
Dibromobiphenyl ether	%		0.0005	N.D.		N.D.	
Tribromobiphenyl ether	%		0.0005	N.D.		N.D.	
Tetrabromobiphenyl ether	%		0.0005	N.D.		N.D.	
Pentabromobiphenyl ether	%	With reference to	0.0005	N.D.		N.D.	
Hexabromobiphenyl ether	%	USEPA3540C or	0.0005	N.D.		N.D.	
Heptabromobiphenyl ether	%	USEPA3550C. Analysis was	0.0005	N.D.		N.D.	
Octabromobiphenyl ether	%	performed by HPLC/DAD,	0.0005	N.D.		N.D.	
Nonabromobiphenyl ether	%	LC/MS or GC/MS.	0.0005	N.D.		N.D.	
Decabromobiphenyl ether	%	(prohibited by 2002/95/EC	0.0005	N.D.		N.D.	
Total PBBEs(PBDEs)	%	(RoHS), 83/264/EEC, and	-	N.D.		N.D.	
(Polybrominated biphenyl		76/769/EEC)					
ethers)/Sum of above							
Total of Mono to Nona-	%		-	N.D.		N.D.	
brominated biphenyl							
ether. (Note 4)							

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WONDERFUL HI-TECH CO., LTD. NO. 17, PEI-YUAN ROAD, CHUNG-LI IND, PARK, TAOYUAN TAIWAN, R. O. C.

Report No. : CS/2006/60408

Date : 2006/06/21

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				Result			
Test Item (s):	Unit	Method	MDL	No.1	No.2	No.3	No.4
Chromium VI (Cr+6)		UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)		ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)		ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.
Lead (Pb)		ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	N.D.	N.D.	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
- (7) " --- " = Not Applicable



WONDERFUL HI-TECH CO., LTD. NO. 17, PEI-YUAN ROAD, CHUNG-LI IND, PARK, TAOYUAN TAIWAN, R. O. C.

Report No. : CS/2006/60408

: 2006/06/21

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Date

PART NAME NO.1:



PART NAME NO.2:



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No. 136-1, Wi King Road, Wilklu Industrial Zone, Taipei county, Taiwan.

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WONDERFUL HI-TECH CO., LTD. NO. 17, PEI-YUAN ROAD, CHUNG-LI IND, PARK, TAOYUAN TAIWAN, R. O. C.

Report No. : CS/2006/60408 Date : 2006/06/21

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PART NAME NO.3:



PART NAME NO.4:



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Housing Material Data Sheet

Housing - TPU

TPU

熱塑性聚銨脂



Items	Test Methods 試驗方法		Unit	_192	385	. 5-	KU 2-860
項目	DIN	ISO	軍位	8092	8085	588	1.00
Mechanical Properties 機械特性			o logina in				4 4
Tensile Yield Strength 拉伸屈曲強度	53504	37	MPa	45	40	30	40
Elongation at Break 延伸率	53504	37	%	450	450	500	500
Compression Set 圏縮變形 70 hr st 22°C 24 hr st 70°C	53517 53517	-	% %	. 25 60	30 55	30 65	25 42
Physical Properties 物理特性	The second second						ne fitel
Shore A Hardness 硬度	53505	868	- '	94	85	88	82
Shire D Hardness 硬度	53505	868	-	42	32	33	31
Modulus of Elasticity	53455	-	МРа	45	15	30	12
Abrasion Resistance(Loss)	53516	4649	mm ³	30	30	60	20
, Rebound Resilience	53512	4662	%	30	42	36	45
Tear Propagation Resistance	53515	-	kN/m	90	70	55	50
Density 密度	53479	1183	g/cm ³	1.23	1.20	1.15	1.11
Electrical Properties 電氣特性			Property of the state of	- 102 15		Talage.	
Dielectric Strength 耐電率 (50Hz,0.5kV/s) 1. Dry 2. 4 days at 80% r.h. 3. 24 h immersion in water Surface Resistivity	VDE 030	3/part 2 3•1mm	kV/mm Ohm	14.8 13.7 13.9	17.5 17.6 17.7	20.2 20.0 20.1	NA NA NA
1,000V, 1-minute Value 1. Dry 2. 2.4 days at 80% r.h. 3. 24 h immersion in water	VDE 030 Standard 1	3/part 3		1•10 ¹² 2•10 ¹¹ 2•10 ¹¹	5•10 ¹¹ 8•10 ¹¹ 5•10 ¹¹	6-10 ¹¹ 7-10 ¹⁰ 7-10 ¹⁰	NA NA NA
Insulation Between Plug Electrodes 1,000V, 1-minute Value 1. Dry 2. 4 days at 80% r.h. 3. 24 h immersion in water	VDE 030)3/part 3	Ohm	5-10 ¹² 1-10 ¹² 2-10 ¹¹	4-10 ¹¹ 7-10 ¹⁰ 7-10 ¹⁰	1•10 ¹² 1•10 ¹¹ 1•10 ¹⁰	NA NA NA
Volume Resistivity 1,000V, 1-minute Value 1. Dry 2. 4 days at 80% r.h. 3. 24 h immersion in water	IEC 93. VDE 0303/part 3		Ohm-cm	5•10 ¹² 7•10 ¹² 2•10 ¹¹	8-10 ¹¹ 2-10 ¹¹ 1-10 ¹¹	3•10 ¹² 2•10 ¹¹ 8•10 ¹⁰	NA NA NA
Dielectric Constant 1. At 50Hz 2. At 1kHz 3. At 1MHz 4. At 1GHz	VDE 030	03/part4 I 50mmؕ		6.6 6.3 5.1 3.6	6.5 6.4 5.6 3.8	6.3 6.1 5.0 3.4	NA NA NA
Dissipation factor tan 1. At 50Hz 2. At 1kHz 3. At 1MHz 4. At 1GHz	VDE 030 95mm and	250.)3/part 4 I 50mmؕ im	Cradica	0.025 0.034 0.075 0.022	0.029 0.018 0.060 0.032	0.024 0.025 0.084 0.024	NA NA NA
Comparative Tracking Index(CTI) (test solution A)	VDE 030 20mm•15i	3/part 1	Grading	600	600 ster	600 Special Ethe	NA r Ether

UL File No.:E41613(M)

The adta are intended as a general guide only makes no guarantee of results and assumes no obligation or liability. 上列数据证明条件,还不能比较被任何责任和证据。



No : CE/2006/B4274 Date: 2006/11/24 Page: 1 of 3

NAN YA PLASTICS CORPORATION 55, WEIWANG ST., SHU LIN, TAIPEI, TAIWAN, R. O. C.

INDICATE PARTIES

Report on the submitted sample said to be TPU.

Style/Item No.

TISSAP

Sample Receiving Date

2006/11/17

Testing Period

2006/11/17 TO 2006/11/24

Test Requested

in accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method

- (1) With reference to BS EN 1122:2001, Method B for Cadminis Content. Analysis was performed by ICP-AES.
- (2) With reference to US EPA Method 30508 for Lead Content. Analysis was performed by ICP-AES.
- With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICF-AES.
- (4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium for non-metallic samples. Analysis was performed by UVA is Spectrometry.
- (5) With reference to US EPA 3548C for PBBs/PBDEs Content. : Analysis was performed by GC/MS.

Test Result(s)

Please refer to next page(s).

Conclusion

Based on the performed tests on submitted samples, the text results are compliant with the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

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No : CE/2006/84274 Date: 2006/11/24 | Page: 2 of 3

HAN YA PLASTICS CORPORATION 55, WEIWANG ST., SHU LIN, TAIPEL, TAIWAN, R. O. C.

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

Test Item (s):	Method	Result	MOL	RoHS
iest tiett (s).	(Refer to)	1,01	MIDF	Limit
Czemium (Cd)	(1)	n.d.	2	100
Lead (Fb)	(2)	n.d.	2	1000
Mercury (Hg)	(3)	n,d,	2	1000
Hexavalent Chromium (CfVI)	(4)	n.d	3	1000
Sum of PBBs		Π.ά.	-	1000
Monobromobiphenyl] [n.d.	5	-
Dibrom abiphenyl] . [n.d.	5	-
Tinbrom objehenyi		n.ď.	5	
Tetrabromobiphenyi		n.d.,	5	-
Pentabromabiphenyi .		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.ć.	5	
Octabromobiphenyl	·	n.d.	5	-
Negabromobiphenyl		n.d.	5	
Decabromobiphenyl		n.d.	5	-
Sum of PBDEs (Mone to Nona) (Note 4)	(5)	n.d.		1000
Munabromobiphenyl ether]	n.d.	5	-
Dibromobiphenyl ether	j	n.d.	5	
Tribramobiphenyl ≥ther	·	n.d.	5	٦.
Tetrabromobiphenyl ether		П.d.		H
Pontabromobiphenyl ether		n.d.	5	-
Hexabromobiphenyl ether		n.d.	5	
Heptabromobiphenyl ether		n.d.	5.	-
Octabromobiphenyl ether] . [пd.	. Š	
Nonabromobiphenyl ether		n.d.	5	<u> </u>
Decabromobiphenyl ellter]	n.d.	5	-
Sum of PBDEs (Mono to Deca)]	n.d.	-	_

Test Part Description:

Note: i motkg = ppm

NO.1

7 n.d. = Not Detected

- 3. MDL = Method Detection Limit
- 4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

TRANSPARENT PLASTIC PELLETS

S. *- * = Not Regulated

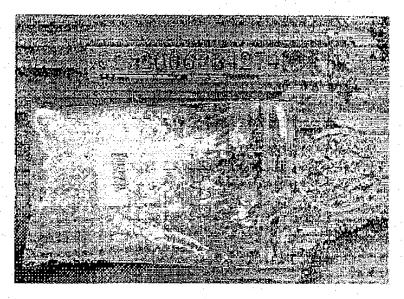
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Na : CE/2006/84274

Date: 2006/11/24 Page: 3 of 3

NAN YA FLASTICS CORPORATION 55, WERWANG ST., SHU LIN, TAIPEI, TAIWAN, R. O. C.



~ End of Report →

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Hinge(Base/Holder)- PC+ALLOY

SHINBLEND SHINKONG SYNTHETIC FIBERS CORPORATION
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
新光合成纖維腦份有觀公司
ALLOY 8th Pl., 123, Sec.2, Nanking Past Road, Taiper, Taiwan
Pet : 886-2-2507-0131 886-2-2507-12 ULines): 886-3-4932 [31-1780
ENGINEERING PLASTIC DIVISION Fix: 886-2-2506-8047 886-3-491-5763

Technical Data
SHINBLEND
A724NA
High Impact Grade / 建划版:AD4011

		Unit	Test Method	Values
Mechanical properties	機械性質		列州州 州(1887年)	
Izod Impact(Notched) 23°C	衝擊強度	Kg-cm/cm	ASTM D256	85
-20°C	衝擊強度	Kg-cm/cm	ASTM D256	70
-40°C	衝擊強度	Kg-cm/cm	ASTM D256	65
Tensile Strength	拉伸強度	Kg/cm ²	ASTM D638	540
Elongation	拉伸率	%	ASTM D638	100
Flexural Strength	彎曲強度	Kg/cm ²	ASTM D790	800
Flexural Modulus	彎曲模數	Kg/cm ²	ASTM D790	20000
Thermal properties	熱性質			
Heat Deflection Temperature	熱變形溫度		ASTM D648	
66psi		°C	í	-
264psi		°C	i	100
Flammability	防火性	*	UL94 †	*
Melting Point	熔點	°C	DSC	223
Electrical properties	電氣性質			
Dielectric Strength	介電強度	KV/MM	ASTM D149	-
Dielectric Constant	介電常數	1000	ASTM D150	-
Volume Resistivity	體積電阻	Ω -CM	ASTM D257	-
Other properties	其它性質			
Specific Gravity	比重	. ·	ASTM D792	1.19
Water Absorption	吸水率	%	ASTM D570	0.14
Mold Shrinkage	成形收縮率		ASTM D955	
Flow	流動方向	%		0.4~0.6
Cross Flow	垂直方向	%	1	0.5~0.7

[&]quot;Nothing in this information shall be construed as a recommendation for any use that may infringe on any patent right or as an endorsement of any material supplied by Shinkong Synthetic Fibers Corporation. We do not gurantee the applicability or the accuracy of this information or the performance of our products in any specific situation. We recommend each user of our products make its own tests to determine if the material is suitable for a particular use. The data show here are within the normal range of product properties, but they are NOT SECIFICATION LIMITS. Additives of any kind alter some or all 2002/6



No.: CE/2007/12587 Date: 2007/01/17

Page : 1 of 4

SHINKONG SYNTHETIC FIBERS CORPORATION

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

Sample Description

THERMOPLASTIC ALLOY RESIN

Style/Item No.

SHINBLEND® ALLOY A724NA

Manufacturer/Vendor

SHINKONG SYNTHETIC FIBERS CORPORATION

Sample Receiving Date

2007/1/10

Testing Period

2007/1/10 TO 2007/01/17

Test Requested

In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

With reference to IEC 62321, Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated Substances

in Electrotechnical Products.

Determination of Cadmium by ICP-AES. (1)

(2)Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

Determination of Hexavalent Chromium for non-metallic (4)

samples by UV/Vis Spectrometry.

Determination of PBB and PBDE by GC/MS. (5)

Test Result(s)

Please refer to next page(s).

peration Manager Signed for and on behalf of

SGS TAIWAN LTD.

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Test Report No.: CE/2007/12587 Date: 2007/01/17 Page : 2 of 4

SHINKONG SYNTHETIC FIBERS CORPORATION

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

T 4 14 (-)-	Method	Result	MDI
Test Item (s):	(Refer to)	No.1	MDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs		n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabrom obiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabrom obiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabrom obiphenyl		n.d.	5
Decabrom obiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 WHITE PLASTIC PELLETS

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

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

5. "-" = Not Regulated

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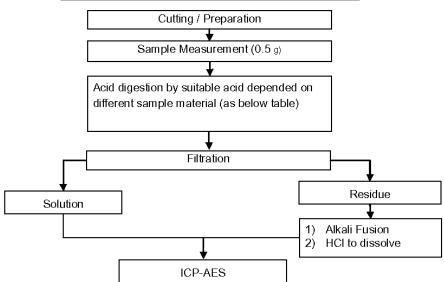


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SHINKONG SYNTHETIC FIBERS CORPORATION

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

Method 1: Flow Chart of Digestion for Cd . Pb analysis



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCI, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCI
Others	Any acid to total digestion

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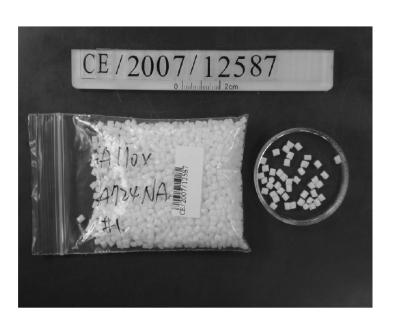
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No.: CE/2007/12587 Date: 2007/01/17 Page : 4 of 4

SHINKONG SYNTHETIC FIBERS CORPORATION



** End of Report **

Sleeve



Test Report

唐正企業有限公司

235台北縣中和市中正路861巷11號

報告號碼: CE/2006/63729

日期 : 2006/06/19

頁數 : 1 of 2

以下測試樣品乃供應廠商所提供及確認:

樣品名稱

空心圓針,實心圓針之黃銅材質(裸針)

產品型號

Ø0.6-12.0

收件日期

2006/06/12.

測試日期

2006/06/12 TO 2006/06/19

測試結果

測試部位 NO.1

: 黄銅色金屬

测試項目	單位	测試方法	 	結果	
测风顶目	- * 12.	网	1貝 /別 /型 [以]祖	NO.1	
六價鉻	рpm	依照US EPA 3060A方法,用UV- VIS(US EPA 7196A)做分析	2	N.D.	
绢	p pm	依照 EN1122 方法B:2001或其他酸消化方法,用感應藕合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	
汞	ppm	依照 US EPA 3052 方法或其他酸消化方法,用感應藕合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應藕合電漿原子發射光譜儀(ICP-AES)做分析	2	15.8	

備註:(1) N.D. = Not detected.(<MDL) / 未檢出(低於偵測極限値)

(2) ppm = mg/kg / 百萬分之一

(3) MDL= Method Detection Limit(偵測極限値)

Darliel Yeh, M.R. / Operation Manager

Signed for and on behalf of SGS TAIWAN LTD.

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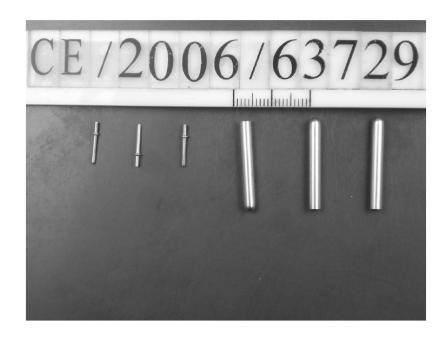
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唐正企業有限公司 235台北縣中和市中正路861巷11號 報告號碼: CE/2006/63730

日期 : 2006/06/19

頁數 : 1 of 2

以下測試樣品乃供應廠商所提供及確認:

樣品名稱 空心圓針,實心圓針之黃銅材質表面鍍錫處理

產品型號 Ø0.6-12.0 收件日期 2006/06/12.

測試日期 2006/06/12 TO 2006/06/19

测試結果

測試部位 NO.1

: 銀色金屬

测試項目	單位	测試方法	侦测極限值	结果
Wil saf als Ci	* **	网络刀法	15(//) (SE FA 16L	NO.1
六價鉻	p pm	依照US EPA 3060A方法,用UV-	2	N.D.
		VIS(US EPA 7196A)做分析		
鎬	p pm	依照 EN1122 方法B:2001或其他酸	2	N.D.
		消化方法,用感應藕合電漿原子發		
		射光譜儀(ICP-AES)做分析		
汞	p pm	依照 US EPA 3052 方法或其他酸	2	N.D.
		消化方法,用感應藕合電漿原子發		
		射光譜儀(ICP-AES)做分析		
鉛	p pm	依照 US EPA 3050B 方法或其他酸	2	24.7
		消化方法,用感應藕合電漿原子發		
		射光譜儀(ICP-AES)做分析		

備註:(1) N.D. = Not detected.(<MDL) / 未檢出(低於偵測極限值)

(2) ppm = mg/kg / 百萬分之一

(3) MDL= Method Detection Limit(偵測極限値)

Darliel Yeh, M.R. Poperation Manager

Signed for and on behalf of

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