

Test Report

Report No. : CE/2005/B4391

Date : 2005/11/25

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TEST REPORT

REPORT NO.KE/2006/41816

DATE: 2006/5/3

PAGE: 1 OF 3

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

CLIENT : FORMOSA PLASTICS CORPORATION.
PRODUCT DESCRIPTION : POLYPROPYLENE HOMOPOLYMER.
 : (AS ATTACHED SAMPLE PHOTO).
STYLE/ITEM NO. : 1003,1005,1009,1020,1020L,1024,1040,1040F,1040U,1050,1080,
 1120,1120D,1124,1124H,1120F,1122F,1202F,1250C,1250D,1252F,
 1350,1350C,1350D,1352F,2020,2020H,2020K,2020M,2020S,2027,
 2080,2100.
TESTING DATE : 2006/04/26 TO 2006/05/03.
SAMPLE RECEIVED : 2006/04/26.

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

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

Test Result

PASS

TEST ITEM(S)	UNIT	METHOD	MDL	RESULT	LIMIT OF RoHS
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	n.d.	100
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	n.d.	1000
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
PBBs(Polybrominated biphenyls)	---	---	---	---	---
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS, (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.	---
Dibromobiphenyl	%		0.0005	n.d.	---
Tri bromobiphenyl	%		0.0005	n.d.	---
Tetrabromobiphenyl	%		0.0005	n.d.	---
Pentabromobiphenyl	%		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.	---
Total PBBs(Polybrominated biphenyls) / Sum of above	%		---	n.d.	0.1



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

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TW2607942

SGS Taiwan Ltd. No. 208, Chung Hwa 2nd Road San Min District Kaohsiung, Taiwan. / 高雄市三民區中華二路208號
 台灣檢驗科技股份有限公司 t (886-7) 323-0920 f (886-7) 315-7484 www.tw.sgs.com

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TEST ITEM(S)	UNIT	METHOD	MDL	RESULT	LIMIT OF RoHS
PBDEs(Polybrominated biphenyl ethers)	---	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	---	---	---
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	%		0.0005	n.d.	---
Heptabromobiphenyl ether	%		0.0005	n.d.	---
Octabromobiphenyl ether	%		0.0005	n.d.	---
Nonabromobiphenyl ether	%		0.0005	n.d.	---
Decabromobiphenyl ether	%		0.0005	n.d.	---
Total PBDEs(Polybrominated biphenyl ethers) / Sum of above	%		---	n.d.	---
Total of Mono to Nona-brominated biphenyl ether. (Note 4)	%		---	n.d.	0.1

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

(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.



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SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

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TEST REPORT

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<END>



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TW2607940

Test Report

報告號碼 : CE/2005/76054A

日期 : 2005/08/08

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 : BRASS Ø 9.5mm
 收件日期 : 2005/07/28
 測試日期 : 2005/07/28 TO 2005/08/08

測試結果

測試部位 NO.1 : 金色金屬(請參照附件圖片)

測試項目：	單位	測試方法	偵測極限值	結果
				NO.1
六價鉻	ppm	依照US EPA 3060A方法,用UV-VIS 做分析	2	N.D.
鎘	ppm	依照 EN1122 方法B:2001或其他酸 消化方法,用感應耦合電漿原子發 射光譜儀(ICP-AES)做分析	2	37.0
汞	ppm	依照 US EPA 3052 方法或其他酸 消化方法,用感應耦合電漿原子發 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,用感應耦合電漿原子發 射光譜儀(ICP-AES)做分析	2	33709.4

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(偵測極限值)


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

Test Report

報告號碼 : CE/2005/76054A

日期 : 2005/08/08

頁數 : 2 of 2



Insulator 材質證明



Test Report

報告號碼 : CE/2005/76065A

日期 : 2005/08/04

頁數 : 1 of 4

以下測試樣品乃供應廠商所提供及確認：

樣品名稱 : TEFLON
收件日期 : 2005/07/28,
測試日期 : 2005/07/28 TO 2005/08/04

測試結果 : - 請見下一頁 -


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

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Insulator 材質證明



Test Report

報告號碼 : CE/2005/76065A

日期 : 2005/08/04

頁數 : 2 of 4

測試結果

測試部位 NO.1 : 白色塑膠(請參照附件圖片)

測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
一溴聯苯	%	本測試參考USEPA3540C 或 USEPA3550C方法, 以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.
二溴聯苯	%		0.0005	N.D.
三溴聯苯	%		0.0005	N.D.
四溴聯苯	%		0.0005	N.D.
五溴聯苯	%		0.0005	N.D.
六溴聯苯	%		0.0005	N.D.
七溴聯苯	%		0.0005	N.D.
八溴聯苯	%		0.0005	N.D.
九溴聯苯	%		0.0005	N.D.
十溴聯苯	%		0.0005	N.D.
總多溴聯苯(PBBs)/以上總和	%		-	N.D.
一溴聯苯醚	%	本測試參考USEPA3540C 或 USEPA3550C方法, 以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.
二溴聯苯醚	%		0.0005	N.D.
三溴聯苯醚	%		0.0005	N.D.
四溴聯苯醚	%		0.0005	N.D.
五溴聯苯醚	%		0.0005	N.D.
六溴聯苯醚	%		0.0005	N.D.
七溴聯苯醚	%		0.0005	N.D.
八溴聯苯醚	%		0.0005	N.D.
九溴聯苯醚	%		0.0005	N.D.
十溴聯苯醚	%		0.0005	N.D.
總多溴聯苯醚(PBDEs)/以上總和	%		-	N.D.

Insulator 材質證明



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報告號碼 : CE/2005/76065A

日期 : 2005/08/04

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測試項目:	單位	測試方法	檢測極限值	結果
				NO.1
六價鉻	ppm	依照 US EPA 3060A 方法, 用 UV-VIS 做分析	2	N.D.
鎘	ppm	依照 EN1122 方法B:2001 或其他酸消化方法, 用感應耦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, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 做分析	2	N.D.
鉛	ppm	依照 US EPA 205.60 方法或其他酸消化方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 做分析	2	N.D.

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

(2) ppm = ng/kg / 百萬分之一

(3) MDL = Method Detection Limit (檢測極限值)

(4) " - " = Not Regulation / 無規格值

Insulator 材質證明

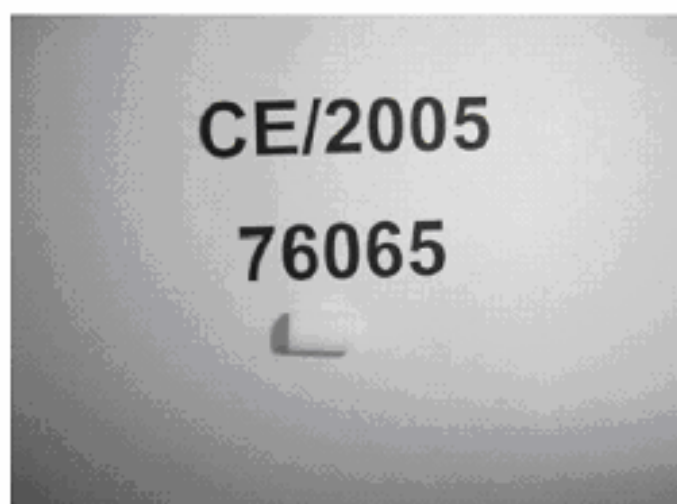


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報告號碼 : CE/2005/76065A

日期 : 2005/08/04

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SGS TAWAN LIMITED | NO. 136-1, WuKung Road, WuKung Industrial Zone, Taipei County, Taiwan

電鍍材質證明-3

Chemical Laboratory - KAO.,SGS Taiwan Ltd.

TEST REPORT

REPORT NO.KA/2005/30993/A-1
DATE: 2005/3/23
PAGE: 1 OF 1

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS :

CLIENT : CHIN-LEEP ENTERPRISE CO.,LTD.
: 45, CHUNG-SHAN 10TH STREET, KUEI-JEN HSIANG, TAINAN HSIEN, TAIWAN, R.O.C..
PRODUCT DESCRIPTION : 鍍金藥液(檸檬酸鉀,檸檬酸,磷酸二鉀,氰化金鉀).
SAMPLE : AS ATTACHED PHOTO.
TESTING DATE : 2005/3/16 TO 2005/3/23 .
SAMPLE RECEIVED : 2005/03/16.

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

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
CADMIUM	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT EN1122, METHOD B:2001.	2	n.d.
CHROMIUM VI	ppm	ANALYSIS BY US EPA 7196A WITH ADVANCE TREATMENT US EPA 3060A.	2	n.d.
MERCURY	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3052	2	n.d.
LEAD	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3050B	2	n.d.
PBBs	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
PBDEs	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
ORGANOTIN COMPOUNDS	---	---	---	---
TRIBUTYL TIN(TBT)	ppm	BY USING GC/FPD WITH THE PROCEDURE OUTLINE IN DIN 38407.	0.03	n.d.
TRIPHENYL TIN(TPT)	ppm	BY USING GC/FPD WITH THE PROCEDURE OUTLINE IN DIN 38407.	0.03	n.d.

NOTE : n.d. = not detected.

<END>



George Huang
George Huang / Supervisor
Sign for and on behalf of
SGS Taiwan Limited

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2005



Test Report

JONG LIAN ELECTRIC WIRE & CABLE CO., LTD.
NO. 13, LANE 206, HSIN SHU ROAD, HSIN CHUANG,
TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2006/68504

Date : 2006/07/03

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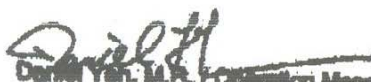


The following sample(s) was/were submitted and identified by/on behalf of
the client as :

Sample Description	:	TINNED COPPER WIRE
Sample Received	:	2006/06/26
Testing Period	:	2006/06/26 TO 2006/07/03

=====

Test Result(s) : - Please see the next page(s) -


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



JONG LIAN ELECTRIC WIRE & CABLE CO., LTD.
NO. 13, LANE 206, HSIN SHU ROAD, HSIN CHUANG,
TAIPEI HSIEN, TAIWAN, R. O. C.

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PART NAME NO.1

: SILVER COLORED METAL WIRE

PASS

Test Item (s):	Unit	Method	MDL	Result	Spec.
				No.1	
EN 71 PART 3 Heavy metal content	---	As per EN 71 PART 3 : 1994 (A1 : 2000, AC:2000 and AC:2002) (EN 71 & BS 5665 are identical)	---	---	---
Soluble Lead (Pb)	ppm	ICP-AES	5	< 5.0	90
Soluble Antimony (Sb)	ppm	ICP-AES	5	< 5.0	60
Soluble Arsenic (As)	ppm	ICP-AES	2.5	< 2.5	25
Soluble Barium (Ba)	ppm	ICP-AES	10	< 10.0	1000
Soluble Cadmium (Cd)	ppm	ICP-AES	5	< 5.0	75
Soluble Chromium (Cr)	ppm	ICP-AES	5	< 5.0	60
Soluble Mercury (Hg)	ppm	ICP-AES	5	< 5.0	60
Soluble Selenium (Se)	ppm	ICP-AES	5	< 5.0	500
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.	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

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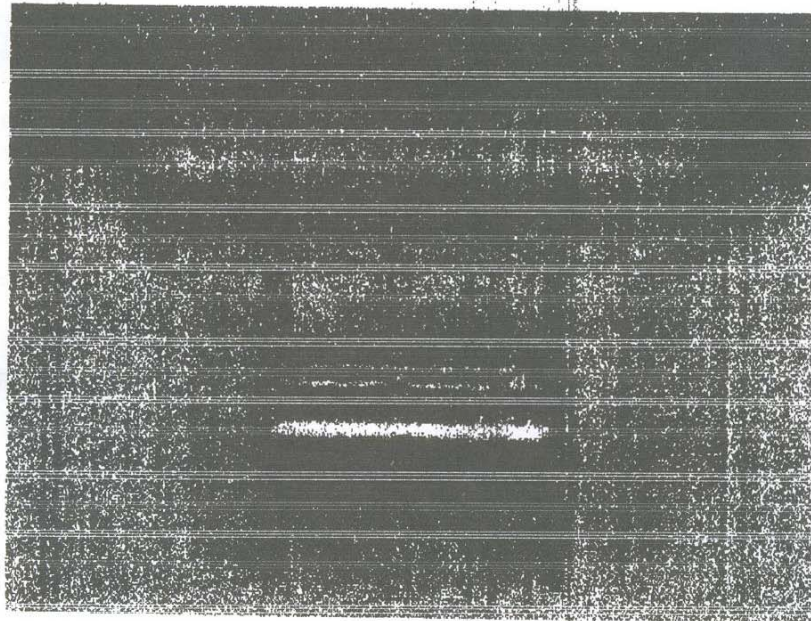
Test Report

JONG LIAN ELECTRIC WIRE & CABLE CO., LTD.
NO. 13, LANE 206, HSIN SHU ROAD, HSIN CHUANG,
TAIPEI HSIEN, TAIWAN, R. O. C.

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Test Report

茂康股份有限公司
*103台北市大同區長安西路106號11樓之1

報告號碼 : CV/2006/50427A
日期 : 2006/06/05
頁數 : 1 of 4

以下測試樣品乃供應廠商所提供及確認：

樣品名稱	:	塑膠粒
產品型號	:	SL-1230-NT
收件日期	:	2006/05/30.
測試日期	:	2006/05/30 TO 2006/06/05

=====
測試結果 : 此份樣品所化驗的化學物質—鉛、鎘、汞、六價鉻、多溴聯苯及多溴聯苯醚的測試結果，符合RoHS指令(2002/95/EC)


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

Test Report

茂康股份有限公司

*103台北市大同區長安西路106號11樓之1

報告號碼：CV/2006/50427A

日期：2006/06/05

頁數：2 of 4

測試結果

測試部位 NO.1

：白色塑膠粒

通過

測試項目：	單位	測試方法	偵測極限值	結果	ROHS 限值
				NO.1	
一溴聯苯	%	本測試參考USEPA3540C 或 USEPA3550C方法，以氣相層析儀/ 質譜儀(GC/MS)或高效液相層析儀/ 二極體陣列偵測器/質譜儀 (HPLC/DAD/MS)檢測之(參考歐盟規 範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.	-
二溴聯苯	%		0.0005	N.D.	-
三溴聯苯	%		0.0005	N.D.	-
四溴聯苯	%		0.0005	N.D.	-
五溴聯苯	%		0.0005	N.D.	-
六溴聯苯	%		0.0005	N.D.	-
七溴聯苯	%		0.0005	N.D.	-
八溴聯苯	%		0.0005	N.D.	-
九溴聯苯	%		0.0005	N.D.	-
十溴聯苯	%		0.0005	N.D.	-
總多溴聯苯(PBBs)/以上總和	%		-	N.D.	0.1
一溴聯苯醚	%	本測試參考USEPA3540C 或 USEPA3550C方法，以氣相層析儀/ 質譜儀(GC/MS)或高效液相層析儀/ 二極體陣列偵測器/質譜儀 (HPLC/DAD/MS)檢測之(參考歐盟規 範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.	-
二溴聯苯醚	%		0.0005	N.D.	-
三溴聯苯醚	%		0.0005	N.D.	-
四溴聯苯醚	%		0.0005	N.D.	-
五溴聯苯醚	%		0.0005	N.D.	-
六溴聯苯醚	%		0.0005	N.D.	-
七溴聯苯醚	%		0.0005	N.D.	-
八溴聯苯醚	%		0.0005	N.D.	-
九溴聯苯醚	%		0.0005	N.D.	-
十溴聯苯醚	%		0.0005	N.D.	-
總多溴聯苯醚(PBBEs/PBDEs)/以上總和	%		-	N.D.	-
一溴聯苯醚至九溴聯苯醚 總和(備註 4)	%		-	N.D.	0.1

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Test Report

茂康股份有限公司

*103台北市大同區長安西路106號11樓之1

報告號碼：CV/2006/50427A

日期：2006/06/05

頁數：3 of 4

通過

測試項目：	單位	測試方法	偵測極限值	結果	ROHS 限值
				NO.1	
六價鉻	ppm	依照 US EPA 3060A方法,用UV-VIS(US EPA 7196A)做分析	2	N.D.	1000
鎘	ppm	依照 FN1122 方法B:2001或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	100
汞	ppm	依照 US EPA 3052 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	1000
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	1000

備註：(1) N.D. = Not detected.($\leq$ 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(偵測極限值)

(4) 根據2005年10月13日歐盟會議公佈2005/717/EC, 修訂2002/95/EC內容, 通過解除高分子材質中十溴聯苯醚之使用限制。

(5) " - " = Not Regulation / 無規格值

Test Report

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以下測試樣品乃供應廠商所提供及確認：

樣品名稱 : 塑膠粒
產品型號 : SL-101MB
收件日期 : 2006/05/30.
測試日期 : 2006/05/30 TO 2006/06/05

=====
測試結果 : 此份樣品所化驗的化學物質—鉛、鎘、汞、六價鉻、多溴聯
苯及多溴聯苯醚的測試結果，符合RoHS指令(2002/95/EC)


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

Test Report

茂康股份有限公司

*103台北市大同區長安西路106號11樓之1

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測試結果

測試部位 NO.1

：白色塑膠粒

通過

測試項目：	單位	測試方法	偵測極限值	結果	ROHS 限值
				NO.1	
一溴聯苯	%	本測試參考USEPA3540C 或 USEPA3550C方法，以氣相層析儀/ 質譜儀(GC/MS)或高效液相層析儀/ 二極體陣列偵測器/質譜儀 (HPLC/DAD/MS)檢測之(參考歐盟規 範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.	-
二溴聯苯	%		0.0005	N.D.	-
三溴聯苯	%		0.0005	N.D.	-
四溴聯苯	%		0.0005	N.D.	-
五溴聯苯	%		0.0005	N.D.	-
六溴聯苯	%		0.0005	N.D.	-
七溴聯苯	%		0.0005	N.D.	-
八溴聯苯	%		0.0005	N.D.	-
九溴聯苯	%		0.0005	N.D.	-
十溴聯苯	%		0.0005	N.D.	-
總多溴聯苯(PBBs)/以上總和	%		-	N.D.	0.1
一溴聯苯醚	%	本測試參考USEPA3540C 或 USEPA3550C方法，以氣相層析儀/ 質譜儀(GC/MS)或高效液相層析儀/ 二極體陣列偵測器/質譜儀 (HPLC/DAD/MS)檢測之(參考歐盟規 範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.	-
二溴聯苯醚	%		0.0005	N.D.	-
三溴聯苯醚	%		0.0005	N.D.	-
四溴聯苯醚	%		0.0005	N.D.	-
五溴聯苯醚	%		0.0005	N.D.	-
六溴聯苯醚	%		0.0005	N.D.	-
七溴聯苯醚	%		0.0005	N.D.	-
八溴聯苯醚	%		0.0005	N.D.	-
九溴聯苯醚	%		0.0005	N.D.	-
十溴聯苯醚	%		0.0005	N.D.	-
總多溴聯苯醚(PBBEs/PBDEs)/以上總和	%		-	N.D.	-
一溴聯苯醚至九溴聯苯醚總和(備註4)	%		-	N.D.	0.1

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測試項目:	單位	測試方法	偵測極限值	結果	ROHS 限值
				NO.1	
六價鉻	ppm	依照 US EPA 3060A方法,用UV-VIS(US EPA 7196A)做分析	2	N.D.	1000
鎘	ppm	依照 FN1122 方法B:2001或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	100
汞	ppm	依照 US EPA 3052 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	1000
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	1000

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(偵測極限值)

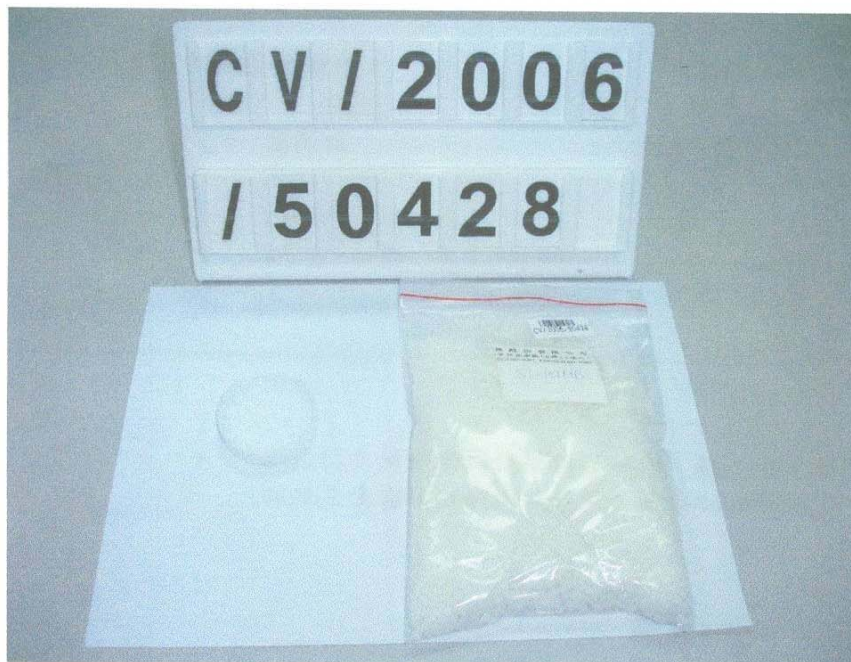
(4) 根據2005年10月13日歐盟會議公佈2005/717/EC, 修訂2002/95/EC內容, 通過解除高分子材質中十溴聯苯醚之使用限制。

(5) " - " = Not Regulation / 無規格值

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