

Test Report

No. SH6135837/CHEM

Date: Nov. 10, 2006

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Sample photo:



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sgs.china@sgs.com**SHCHEMA 910779**

Test Report

No. SH6129389/CHEM

Date: Oct. 24, 2006

Page 1 of 5

SUMITOMO ELECTRIC INTERCONNECT PRODUCTS(SUZHOU)LTD
NO.232 JINFENG ROAD SND SUZHOU JIANGSU CHINA

Report on the submitted sample said to be INSULATION MATERIAL.

SGS Ref No. : 10117179-6
Buyer : SONY
Model : PFA (NATURE COLOR)

Sample Receiving Date : Oct.19 2006
Testing Period : Oct.19 – 23, 2006

Test Requested : With reference to SONY SS-00259
(1) To determine Cadmium , Lead content in the submitted sample.
(2) To determine Mercury content in the submitted sample.
(3) To determine Hexavalent Chromium content in the submitted sample.
(4) To determine PBBs/PBDEs content in the submitted sample.

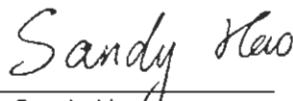
Test Method : (1) Alkali Fusion Method.
Analysis was performed by ICP/AAS.
(2) With reference to EPA7473.
Analysis was performed by Hg Analyzer.
(3) With reference to EPA Method 3060A & 7196A.
Analysis was performed by colorimetric method (UV-VIS).
(4) With reference to EPA Method 3540C/3550C.
Analysis was performed by GC-MS.

Test Results : Please refer to next pages

Signed for and on behalf of
SGS-CSTC Chemical Laboratory


Ella Zhang
Sr. Section Head

Signed for and on behalf of
SGS-CSTC Chemical Laboratory


Sandy Hao
Lab Manager

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Date: Oct. 24, 2006

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

	<u>1</u>	<u>MDL</u>
Cadmium (Cd)	ND	5
Lead (Pb)	ND	10
Mercury (Hg)	ND	2
Hexavalent Chromium (Cr VI)	ND	2
By colorimetric method		
Sum of PBBs	ND	-
Monobromobiphenyl	ND	5
Dibromobiphenyl	ND	5
Tribromobiphenyl	ND	5
Tetrabromobiphenyl	ND	5
Pentabromobiphenyl	ND	5
Hexabromobiphenyl	ND	5
Heptabromobiphenyl	ND	5
Octabromobiphenyl	ND	5
Nonabromobiphenyl	ND	5
Decabromobiphenyl	ND	5
Sum of PBDEs	ND	-
Monobromobiphenyl ether	ND	5
Dibromobiphenyl ether	ND	5
Tribromobiphenyl ether	ND	5
Tetrabromobiphenyl ether	ND	5
Pentabromobiphenyl ether	ND	5
Hexabromobiphenyl ether	ND	5
Heptabromobiphenyl ether	ND	5
Octabromobiphenyl ether	ND	5
Nonabromobiphenyl ether	ND	5
Decabromobiphenyl ether	ND	5

Sample Description:

1. Transparent plastic pellet

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Date: Oct. 24, 2006

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Note:

- (1) mg/kg = ppm
- (2) MDL = Method Detection Limit
- (3) ND = Not detected (Less than MDL)
- (4) "-" = Not Regulated

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SHCHEM 951943

Test Report

No. SH6129389/CHEM

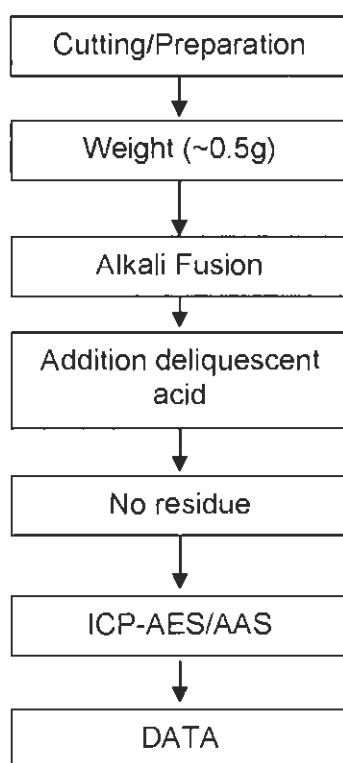
Date: Oct. 24, 2006

Page 4 of 5

ATTACHMENTS

Cd and Pb Measurement Flowchart

Method: Alkali Fusion



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

Tested by : New Dong
Checked by : Terry Wang

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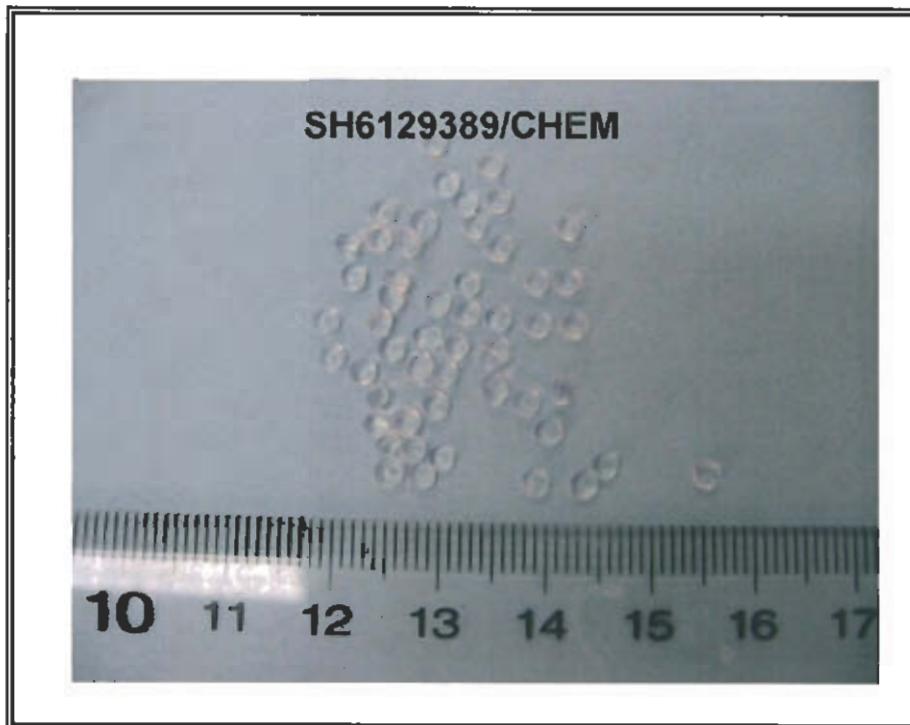
Test Report

No. SH6129389/CHEM

Date: Oct. 24, 2006

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Sample photo:



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SGS-Shanghai Technical Services Co., Ltd.
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SHC951945

Test Report

No. SH6135854/CHEM

Date: Nov. 10, 2006

Page 1 of 5

SUMITOMO ELECTRIC INTERCONNECT PRODUCTS (SUZHOU) LTD
NO.232 JINFENG ROAD SND SUZHOU JIANGSU CHINA

Report on the submitted sample said to be PFA COLOR BATCH.

SGS Ref No. : 10141577-19
Buyer : SONY
Model : PFA-CB (BLACK COLOR)

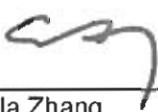
Sample Receiving Date : Nov.07, 2006
Testing Period : Nov.07 –10, 2006

Test Requested : With reference to SONY SS-00259
(1) To determine Cadmium , Lead content in the submitted sample.
(2) To determine Mercury content in the submitted sample.
(3) To determine Hexavalent Chromium content in the submitted sample.
(4) To determine PBBs/PBDEs content in the submitted sample.

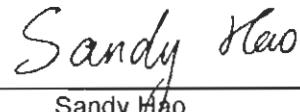
Test Method : (1) Alkali Fusion Method.
Analysis was performed by AAS.
(2) With reference to EPA7473.
Analysis was performed by Hg Analyzer.
(3) With reference to EPA Method 3060A & 7196A.
Analysis was performed by colorimetric method (UV-VIS).
(4) With reference to EPA Method 3540C/3550C.
Analysis was performed by GC-MS.

Test Results : Please refer to next pages

Signed for and on behalf of
SGS-CSTC Chemical Laboratory


Ella Zhang
Sr. Section Head

Signed for and on behalf of
SGS-CSTC Chemical Laboratory


Sandy Hao
Lab Manager

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sgs.china@sgs.com**SHCHEM 909641**

Test Report

No. SH6135854/CHEM

Date: Nov. 10, 2006

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

	<u>1</u>	<u>MDL</u>
Cadmium (Cd)	ND	5
Lead (Pb)	ND	10
Mercury (Hg)	ND	2
Hexavalent Chromium (Cr VI)	ND	2
By colorimetric method		
Sum of PBBs	ND	-
Monobromobiphenyl	ND	5
Dibromobiphenyl	ND	5
Tribromobiphenyl	ND	5
Tetrabromobiphenyl	ND	5
Pentabromobiphenyl	ND	5
Hexabromobiphenyl	ND	5
Heptabromobiphenyl	ND	5
Octabromobiphenyl	ND	5
Nonabromobiphenyl	ND	5
Decabromobiphenyl	ND	5
Sum of PBDEs	ND	-
Monobromobiphenyl ether	ND	5
Dibromobiphenyl ether	ND	5
Tribromobiphenyl ether	ND	5
Tetrabromobiphenyl ether	ND	5
Pentabromobiphenyl ether	ND	5
Hexabromobiphenyl ether	ND	5
Heptabromobiphenyl ether	ND	5
Octabromobiphenyl ether	ND	5
Nonabromobiphenyl ether	ND	5
Decabromobiphenyl ether	ND	5

Sample Description:

1. Black solid pellet

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Test Report

No. SH6135854/CHEM

Date: Nov. 10, 2006

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Note:

- (1) mg/kg = ppm
- (2) MDL = Method Detection Limit
- (3) ND = Not detected (Less than MDL)
- (4) "-" = Not Regulated

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SHCHEM 909643

Test Report

No. SH6135854/CHEM

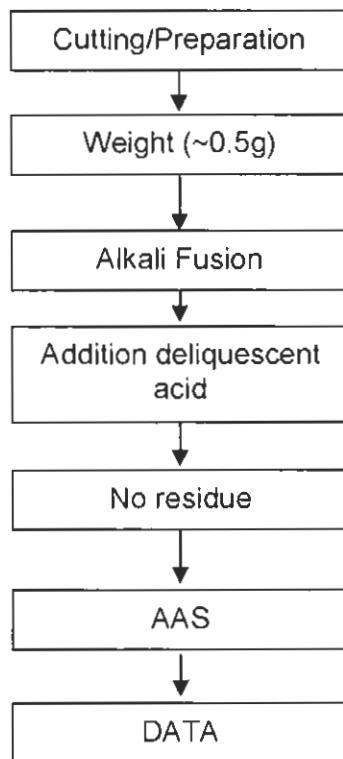
Date: Nov. 10, 2006

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ATTACHMENTS

Cd and Pb Measurement Flowchart

Method: Alkali Fusion



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

Tested by : New Dong
Checked by : Terry Wang

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Test Report

No. SH6135854/CHEM

Date: Nov. 10, 2006

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Sample photo:



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SHCHEMA 909645

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Test Report

報告號碼 : CE/2006/22358C
日期 : 2006/02/20
頁數 : 1

以下測試樣品乃供應商商評提供及確認：

样品名称	洋白铜
产品型号	C7521R
收件日期	2006/02/13
测慧日期	2006/02/13 TO 2006/02/20

測試結果

洞箫藝術 NO.1 : 銀色金屬

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 微分析	2	N.D.
錫	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) 微分析	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) 微分析	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) 微分析	2	N.D.

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

(3) $\text{ppm} \equiv \text{mg/kg}$ / 百萬分之

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

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



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Survey Report

鉛寶科技股份有限公司
怡寶電子(昆山)有限公司
台北縣新店市中正路497巷2號2樓

報告號碼 : CS/2006/80233
日期 : 2006/08/18
頁數 : 1 of 8



以下測試樣品乃供應廠商所提供之確認：

樣品名稱 : 導電泡棉
產品型號 : EGS. BGS. DGS. KGS

測試結果 : - 請見下頁 -

此份報告為合併CE/2006/50827C & CE/2006/64793A & CE/2006/46267C號碼之報告


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

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怡寶電子(昆山)有限公司
台北縣新店市中正路497巷2號2樓

報告號碼 : CS/2006/80233
日期 : 2006/08/18
頁數 : 2 of 8



測試結果

測試部位 NO.1 : 混測黑色和棕色導電布 (CE/2006/50827C)
測試部位 NO.2 : 黑色泡綿 (CE/2006/64793A)
測試部位 NO.3 : 白色膠帶 (CE/2006/46267C)

測試項目	單位	測試方法	偵測極限值	結果		
				NO.1	NO.2	NO.3
石棉						
棕石棉(CAS NO.012172-73-5)	%	參考 NIOSH 9000 / X光繞射 定性分析法(XRD)	1	Negative	---	---
斜方角閃石(CAS NO.017068-78-9)	%	參考 NIOSH 9000 / X光繞射 定性分析法(XRD)	1	Negative	---	---
白石棉(CAS NO.012001-29-5)	%	參考 NIOSH 9000 / X光繞射 定性分析法(XRD)	1	Negative	---	---
透閃石(CAS NO.014567-73-8)	%	參考 NIOSH 9000 / X光繞射 定性分析法(XRD)	1	Negative	---	---
青石棉(CAS NO.012001-28-4)	%	參考 NIOSH 9000 / X光繞射 定性分析法(XRD)	1	Negative	---	---
陽起石(CAS NO.013768-00-8)	%	參考 NIOSH 9000 / X光繞射 定性分析法(XRD)	1	Negative	---	---

測試項目	單位	測試方法	偵測極限值	結果		
				NO.1	NO.2	NO.3
偶氮(AZO)		參考德國1998年1月 FOODSTUFFS AND COMMODITY ARTICLES ACT B82.02-2方法				
4-氨基二苯(CAS NO. 000092-67-1)	ppm	以氣相層析質譜儀和薄層色層 等相關技術檢測分析	3	N.D.	---	---
聯苯胺(CAS NO. 00092-87-5)	ppm	以氣相層析質譜儀和薄層色層 等相關技術檢測分析	3	N.D.	---	---
4-氯鄰甲苯胺(CAS NO. 000095-69-2)	ppm	以氣相層析質譜儀和薄層色層 等相關技術檢測分析	3	N.D.	---	---
2-萘胺(CAS NO. 000091-59-8)	ppm	以氣相層析質譜儀和薄層色層 等相關技術檢測分析	3	N.D.	---	---
鄰氨基二甲基偶氮(CAS NO. 000097-56-3)	ppm	以氣相層析質譜儀和薄層色層 等相關技術檢測分析	3	N.D.	---	---
對硝基鄰甲苯胺(CAS NO. 000099-55-8)	ppm	以氣相層析質譜儀和薄層色層 等相關技術檢測分析	3	N.D.	---	---
對氯苯胺(CAS NO. 000106-47-8)	ppm	以氣相層析質譜儀和薄層色層 等相關技術檢測分析	3	N.D.	---	---

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Survey Report

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怡寶電子(昆山)有限公司
台北縣新店市中正路497巷2號2樓

報告號碼 : CS/2006/80233

日期 : 2006/08/18

頁數 : 3 of 8



測試項目	單位	測試方法	偵測極限值	結果		
				NO.1	NO.2	NO.3
4-甲氧基-間苯二胺(CAS NO. 000615-05-4)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
4,4'-二氨基二苯甲烷(CAS NO. 000101-77-9)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
3,3'-二氯聯苯胺(CAS NO. 000091-94-1)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
3,3'-二甲氧基聯苯胺(CAS NO. 000119-90-4)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
3,3'-二甲基聯苯胺(CAS NO. 000119-93-7)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
3,3'-二甲基-4,4'-二氨基二苯甲烷(CAS NO. 000838-88-0)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
2-甲氧基-5-甲基聯苯(CAS NO. 000120-71-8)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
4,4'-亞甲基雙(氯苯胺)(CAS NO. 000101-14-4)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
4,4'-氧化雙苯胺(CAS NO. 000101-80-4)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
4,4'-硫代雙苯胺(CAS NO. 000139-65-1)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
鄰甲苯胺(CAS NO. 000095-53-4)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
2,4-二氨基甲苯(CAS NO. 000095-80-7)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
2,4,5-三甲基苯胺(CAS NO. 000137-17-7)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
鄰位甲氧基苯胺(CAS NO. 000090-04-0)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
對氨基偶氮苯(CAS NO. 000060-09-3)	ppm	以氣相層析質譜儀和薄層色層等相關技術檢測分析	3	N.D.	---	---
測試項目	單位	測試方法	偵測極限值	結果		
				NO.1	NO.2	NO.3
氯化石蠟(C10-C13)	%	參考USEPA3540C 或 USEPA3550C方法，以氣相層析儀/電子捕捉偵測器或質譜儀(GC/ECD or GC/MS)檢測之	0.01	N.D.	---	---

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測試項目	單位	測試方法	偵測極限值	結果		
				NO.1	NO.2	NO.3
福馬林(甲醛)(CAS No:000050-00-0)	ppm	甲醛定量分析,參考DIN 53315方法,以高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測	0.2	N.D.	---	---

測試項目	單位	測試方法	偵測極限值	結果		
				NO.1	NO.2	NO.3
有機錫						
三苯基錫(TphT)	ppm	參考DIN38407 / 89/677/EEC方法,以氣相層析儀/火焰光度偵器(GC/FPD)檢測有機錫定	0.03	N.D.	---	---
三丁基錫(TBT)	ppm	參考DIN38407 / 89/677/EEC方法,以氣相層析儀/火焰光度偵器(GC/FPD)檢測有機錫定	0.03	N.D.	---	---

測試項目	單位	測試方法	偵測極限值	結果		
				NO.1	NO.2	NO.3
多氯聯苯(PCBs)	ppm	參考 USEPA 8082A方法,以氣相層析質譜儀/電子捕捉偵測器/質譜儀(GC/ECD/MS)檢測	0.5	N.D.	---	---

測試項目	單位	測試方法	偵測極限值	結果		
				NO.1	NO.2	NO.3
鹵素		鹵素定量分析				
鹵素(氯)(CAS NO. 007782-50-5)	ppm	參考 prEN14582方法B,以離子層析儀分析氯含量	50	N.D.	---	---
鹵素(氟)(CAS NO. 007782-41-4)	ppm	參考 prEN14582方法B,以離子層析儀分析氟含量	50	N.D.	---	---
鹵素(溴)(CAS NO. 007726-95-6)	ppm	參考 prEN14582方法B,以離子層析儀分析溴含量	50	N.D.	---	---
鹵素(碘)(CAS NO. 007553-56-2)	ppm	參考 prEN14582方法B,以離子層析儀分析碘含量	50	N.D.	---	---

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測試項目	單位	測試方法	偵測極限值	結果		
				NO.1	NO.2	NO.3
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.	N.D.	N.D.
二溴聯苯	%		0.0005	N.D.	N.D.	N.D.
三溴聯苯	%		0.0005	N.D.	N.D.	N.D.
四溴聯苯	%		0.0005	N.D.	N.D.	N.D.
五溴聯苯	%		0.0005	N.D.	N.D.	N.D.
六溴聯苯	%		0.0005	N.D.	N.D.	N.D.
七溴聯苯	%		0.0005	N.D.	N.D.	N.D.
八溴聯苯	%		0.0005	N.D.	N.D.	N.D.
九溴聯苯	%		0.0005	N.D.	N.D.	N.D.
十溴聯苯	%		0.0005	N.D.	N.D.	N.D.
總多溴聯苯(PBBs)/以上總和	%	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)	-	N.D.	N.D.	N.D.
一溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.
二溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.
三溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.
四溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.
五溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.
六溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.
七溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.
八溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.
九溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.
十溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.
總多溴聯苯醚(PBDEs/PBDEs)/ 以上總和	%	(備註 4)	-	N.D.	N.D.	N.D.
一溴聯苯醚至九溴聯苯醚總和 (備註 4)	%		-	N.D.	N.D.	N.D.

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測試項目	單位	測試方法	偵測極限值	結果		
				NO.1	NO.2	NO.3
多氯奈(PCNs)	ppm	參考USEPA 8081B方法, 以氣相層析質譜儀(GC/MS)檢測	5	N.D.	---	---

測試項目	單位	測試方法	偵測極限值	結果		
				NO.1	NO.2	NO.3
聚氯乙烯(PVC)	%	聚氯乙烯定性分析, 以紅外線光譜分析法搭配垂直式全反射配件(FTIR/ATR)或熱裂解氣相層析質譜儀	1	Negative	---	---

測試項目	單位	測試方法	偵測極限值	結果		
				NO.1	NO.2	NO.3
六價鉻	ppm	依照US EPA 3060A方法, 用UV-VIS(US EPA 7196A)做分析	2	N.D.	N.D.	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)	2	N.D.	N.D.	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)	2	N.D.	N.D.	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)	2	N.D.	N.D.	N.D.

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

(6) " ---" = Not Applicable / 未測項目

(7) 若為氯化石蠟中單一化合物, 則偵測極限為5ppm

(8) Negative / 陰性(未偵測到), Positive / 陽性(已偵測到)

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測試部位 NO.1



測試部位 NO.2



#IMAGE

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測試部位 NO.3



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