

## Test Report

No. SH6135837/CHEM

Date: Nov. 10, 2006

Page 3 of 3

Sample photo:



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

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**SHCHEM 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)

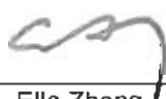
Sample Receiving Date : Oct.19 2006  
Testing Period : Oct.19 – 23, 2006

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.

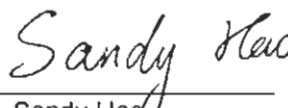
Test Results : Please refer to next pages

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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No. SH6129389/CHEM

Date: Oct. 24, 2006

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

	1	MDL
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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## Test Report

No. SH6129389/CHEM

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**

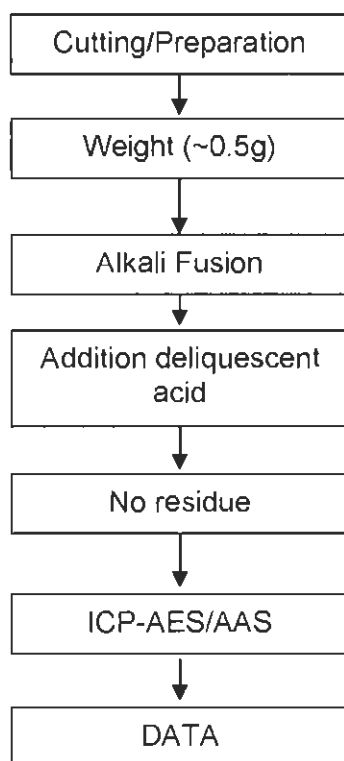
SGS-CS (Shanghai) Technical Services Co., Ltd.  
Shanghai Branch Chemical Laboratory

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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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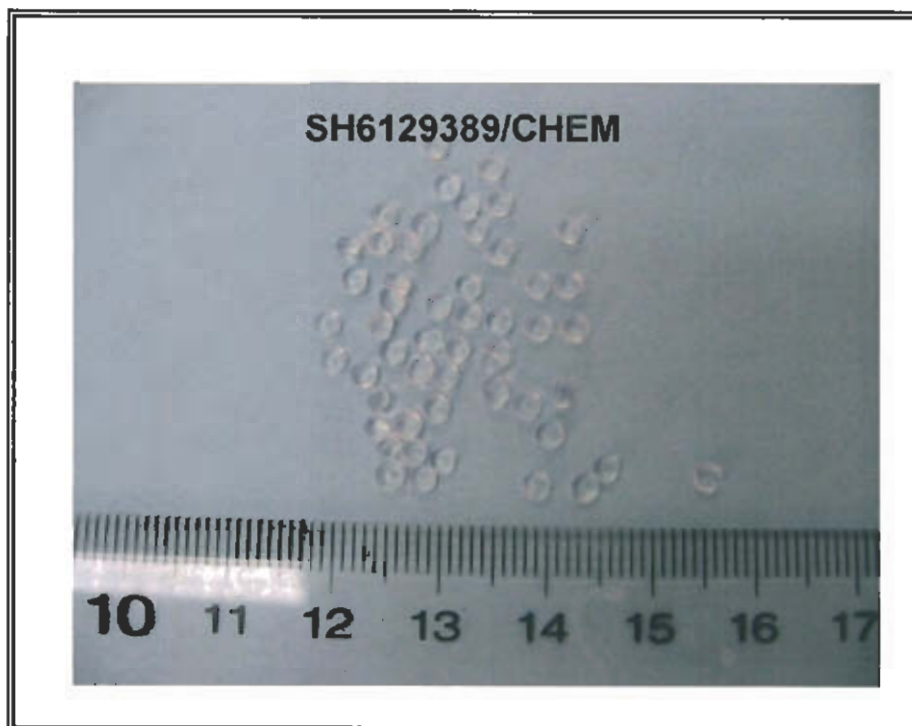
## Test Report

No. SH6129389/CHEM

Date: Oct. 24, 2006

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Sample photo:



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# Test Report

No. SH6135854/CHEM

Date: Nov. 10, 2006

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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

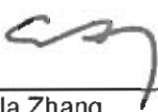
Test Requested : With reference to SONY SS-00259  
(1) To determine Cadmium , Lead content in the submitted sample.  
(2) To determine Mercury content in the submitted sample.  
(3) To determine Hexavalent Chromium content in the submitted sample.  
(4) To determine PBBs/PBDEs content in the submitted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

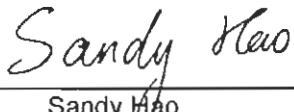
Test Method : (1) Alkali Fusion Method.  
Analysis was performed by AAS.  
(2) With reference to EPA7473.  
Analysis was performed by Hg Analyzer.  
(3) With reference to EPA Method 3060A & 7196A.  
Analysis was performed by colorimetric method (UV-VIS).  
(4) With reference to EPA Method 3540C/3550C.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

Test Results : Please refer to next pages

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

  
Ella Zhang  
Sr. Section Head

  
Sandy Hao  
Lab Manager

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## Test Report

No. SH6135854/CHEM

Date: Nov. 10, 2006

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

	1	MDL
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**

SGS-CSTC Standards Technical Service Co., Ltd.  
Shanghai Branch

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中国·上海·宜山路889号3号楼10层 邮编: 200233

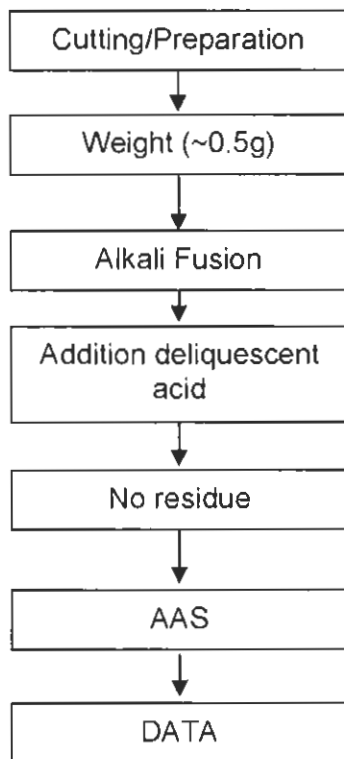
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### ATTACHMENTS

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

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Sample photo:



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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廠商所提供及確認：

樣品名稱 : 洋白銅  
產品型號 : C7521R  
收件日期 : 2006/02/13  
測試日期 : 2006/02/13 TO 2006/02/20

### 測試結果

測試部位 NO.1 : 銀色金屬

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	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 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.

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)

*Donker Yeh, M.H.*  
Donker 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及確認：

樣品名稱 : 導電泡棉  
產品型號 : EGS. BGS. DGS. KGS

=====  
測試結果 : - 請見下一頁 -

\*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.





# 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：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.	---	---



# Survey Report

鈺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：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'-二氧聯苯胺(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'-氯化雙苯胺(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	%		-	N.D.	N.D.	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.	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(PBBEs/PBDEs)/以上總和	%		-	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
聚氯乙稀(PVC)	%	聚氯乙稀定性分析, 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

