

Mag Layers Scientific-Technics., Co., Ltd

Material Description

.....

Mag. Layers certify below statement for material description.

Component type:

Low Temperature Cofired Ceramics LTCC S1 SERIES

Description:

• Comply with Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).

· Comply with the request for Halogen Free limit.

The limit as below:

CI: 900 ppm Br: 900 ppm

Total halogens contained: 1500 ppm

Material:

| Name of material | Pb | Cd | Hg | Cr+6 | PBBs | PBDEs | Br | Cl | Report NO |
|------------------|------|-----|-----|----------|------|-------|-----|-----|--------------------------------|
| Ceramic body | N.D | N.D | N.D | N.D | N.D | N.D | N.D | N.D | KA/2015/11345 |
| Terminal-Ag | N.D | N.D | N.D | N.D | N.D | N.D | N.D | N.D | F690101/LF-CTS AYAA14-40141 |
| Terminal-Ni | N.D | N.D | N.D | Negative | N.D | N.D | N.D | N.D | CE/2014/B1560 |
| Terminal-Sn | 8ppm | N.D | N.D | Negative | N.D | N.D | N.D | N.D | CE/2014/C3272 |



Test Report

號碼(No.): KA/2015/11345 日期(Date): 2015/01/28 頁數(Page): 1 of 13

泓聚實業股份有限公司

UNIGUE ENTERPRISE CO., LTD.

新北市中和區中山路二段255號8樓之1

8F-1, NO. 255, SEC. 2, CHUNG SHAN ROAD, CHUNG HO DISTRICT, NEW TAIPEI CITY, TAIWAN, R.O.C.

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)

樣品型號(Style/Item No.)

收件日期(Sample Receiving Date)

測試期間(Testing Period)

送樣廠商(Sample Submitted By)

: GLASS POWDER(玻璃粉)

: MLS-25M5

: 2015/01/22

: 2015/01/22 TO 2015/01/28

: 泓聚實業股份有限公司 (UNIGUE ENTERPRISE CO., LTD.)

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

Ray Chang Ph.D. / Manager Signed for and on behalf **SGS Taiwan Limited** Chemical Laboratory-Kaohsiung

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測試結果(Test Results)

測試部位(PART NAME) NO.1 : 白色 GLASS POWDER(玻璃粉) (WHITE GLASS POWDER(玻璃粉))

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限値 (MDL) | 結果 (Result) NO.1 |
|--|--------------|---|----------------------|------------------------|
| 鎘 / Cadmium (Cd) | mg/kg | 參考IEC 62321-5: 2013方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | n.d. |
| 鉛 / Lead (Pb) | mg/kg | 參考IEC 62321-5: 2013方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | n.d. |
| 汞 / Mercury (Hg) | mg/kg | 參考IEC 62321-4: 2013方法,以感應耦合電 | 2 | n.d. |
| 六價络 / Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg | 参考IEC 62321: 2008方法,用UV-VIS檢測./ With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. |
| 多溴聯苯總和 / Sum of PBBs | mg/kg | | - | n.d. |
| 一溴聯苯 / Monobromobiphenyl | mg/kg | | 5 | n.d. |
| 二溴聯苯 / Dibromobiphenyl | mg/kg | | 5 | n.d. |
| 三溴聯苯 / Tribromobiphenyl | mg/kg | | 5 | n.d. |
| 四溴聯苯 / Tetrabromobiphenyl | mg/kg | 參考IEC 62321: 2008方法,以氣相層析儀/質 | 5 | n.d. |
| 五溴聯苯 / Pentabromobiphenyl | mg/kg | 譜儀檢測. / With reference to IEC 62321: | 5 | n.d. |
| 六溴聯苯 / Hexabromobiphenyl | mg/kg | 2008 and performed by GC/MS. | 5 | n.d. |
| 七溴聯苯 / Heptabromobiphenyl | mg/kg | | 5 | n.d. |
| 八溴聯苯 / Octabromobiphenyl | mg/kg | | 5 | n.d. |
| 九溴聯苯 / Nonabromobiphenyl | mg/kg | | 5 | n.d. |
| 十溴聯苯 / Decabromobiphenyl | mg/kg | | 5 | n.d. |

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限値 (MDL) | 結果 (Result) NO.1 |
|--|--------------|---|----------------------|------------------------|
| 多溴聯苯醚總和 / Sum of PBDEs | mg/kg | | ı | n.d. |
| 一溴聯苯醚 / Monobromodiphenyl ether | mg/kg | | 5 | n.d. |
| 二溴聯苯醚 / Dibromodiphenyl ether | mg/kg | | 5 | n.d. |
| 三溴聯苯醚 / Tribromodiphenyl ether | mg/kg | | 5 | n.d. |
| 四溴聯苯醚 / Tetrabromodiphenyl ether | mg/kg | 参考IEC 62321: 2008方法,以氣相層析儀/質 | 5 | n.d. |
| 五溴聯苯醚 / Pentabromodiphenyl ether | mg/kg | 譜儀檢測. / With reference to IEC 62321: | 5 | n.d. |
| 六溴聯苯醚 / Hexabromodiphenyl ether | mg/kg | 2008 and performed by GC/MS. | 5 | n.d. |
| 七溴聯苯醚 / Heptabromodiphenyl ether | mg/kg | | 5 | n.d. |
| 八溴聯苯醚 / Octabromodiphenyl ether | mg/kg | | 5 | n.d. |
| 九溴聯苯醚 / Nonabromodiphenyl ether | mg/kg | | 5 | n.d. |
| 十溴聯苯醚 / Decabromodiphenyl ether | mg/kg | | 5 | n.d. |
| 绨 / Antimony (Sb) | mg/kg | 參考US EPA 3052方法,用感應藕合電漿原子發射光譜儀檢測銻含量. / With reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP- | 2 | n.d. |
| 鈹 / Beryllium (Be) | mg/kg | 参考US EPA 3052方法,用感應藕合電漿原子 發射光譜儀檢測鈹含量. / With reference to US EPA Method 3052 for Beryllium Content. Analysis was performed by ICP- | 2 | n.d. |
| 全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS - Acid, Metal Salt, Amide) | mg/kg | 参考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS. | 10 | n.d. |
| 全氟辛酸(銨) / PFOA (CAS No.: 335-67- 1) | mg/kg | 参考US EPA 3550C: 2007方法,以液相層析/ 質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS. | 10 | n.d. |

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限値 (MDL) | 結果 (Result) NO.1 |
|---|--------------|---|----------------------|------------------------|
| 六溴環十二烷及所有主要被辨别出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | mg/kg | 參考IEC 62321: 2008方法,以氣相層析/質譜 儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS. | 5 | n.d. |
| 鹵素 / Halogen | | | | |
| 鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8) | mg/kg | | 50 | n.d. |
| 鹵素 (氣) / Halogen-Chlorine (C1) (CAS No.: 22537-15-1) | mg/kg | 參考BS EN 14582:2007, 以離子層析儀分析. | 50 | n.d. |
| 鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2) | mg/kg | / With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. |
| 鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8) | mg/kg | | 50 | n.d. |
| 可塑劑定量分析 / Phthalates | | | | |
| 鄰苯二甲酸丁苯甲酯 / BBP (Butyl benzyl phthalate) (CAS No.: 85-68-7) | % | | 0.003 | n.d. |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2) | % | | 0.003 | n.d. |
| 鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7) | % | 本測試參考EN 14372, 以氣相層析儀/質譜儀 | 0.003 | n.d. |
| 鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0, 68515-49-1) | % | 檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.01 | n.d. |
| 鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0, 68515-48-0) | % | | 0.01 | n.d. |
| 鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0) | % | | 0.003 | n.d. |

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備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗層材料中不 得超過1µg/m²。(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semifinished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above

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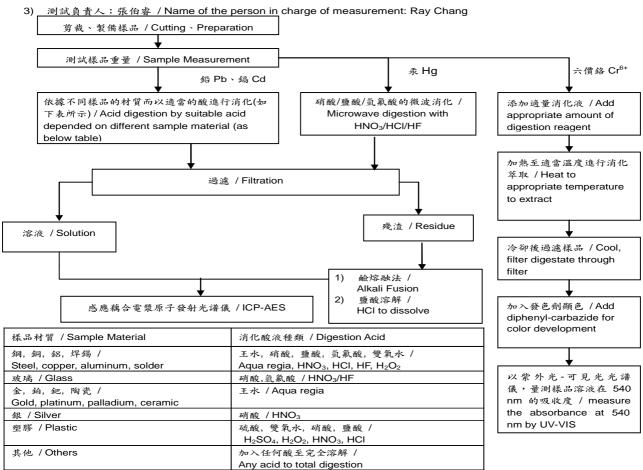
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) 测試人員:劉俊宏 / Name of the person who made measurement: Jony Liu



Note**: (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to $90\sim95\,^{\circ}\mathrm{C}$.

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(2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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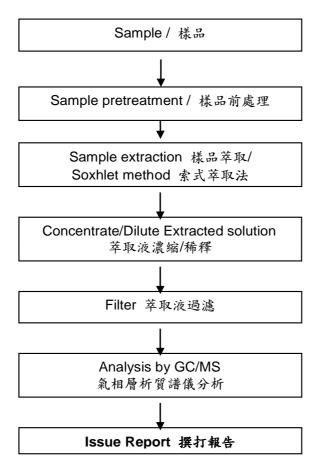


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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1)测試人員: 陳威錚 / Name of the person who made measurement: Dorothy Chen 2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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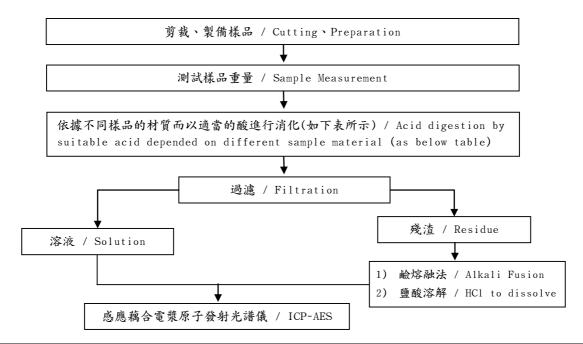
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8F-1, NO. 255, SEC. 2, CHUNG SHAN ROAD, CHUNG HO DISTRICT, NEW TAIPEI CITY, TAIWAN, R.O.C.

- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:劉俊宏 / Name of the person who made measurement: Jony Liu
- 3) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



| 鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder | 王水,硝酸,鹽酸,氫氟酸,雙氧水 / |
|---|--|
| | Aqua regia, HNO3, HC1, HF, H2O2 |
| 玻璃 / Glass | 硝酸,氫氟酸 / HNO3/HF |
| 金,鉑,鲃,陶瓷 / Gold, platinum, palladium, ceramic | 王水 / Aqua regia |
| 銀 / Silver | 硝酸 / HNO3 |
| 塑膠 / Plastic | 硫酸,雙氧水,硝酸,鹽酸 / H2SO4, H2O2, HNO3, HC1 |
| 其他 / Others | 加入任何酸至完全溶解 / Any acid to total digestion |

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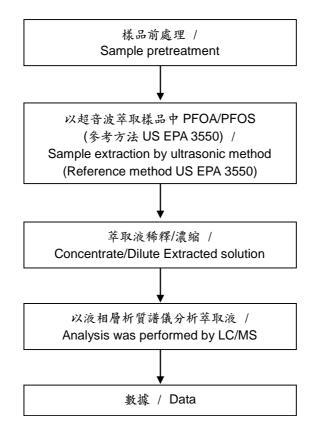
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全氟辛酸(銨)/ 全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

1)測試人員:黄璟瓔 / Name of the person who made measurement: Ginny Huang

2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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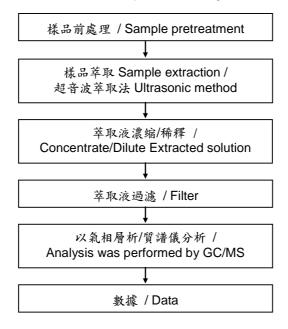
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 1) 測試人員: 陳威錚/ Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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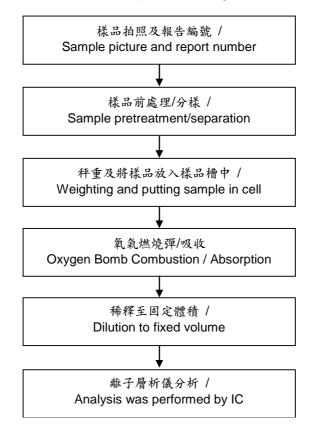
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員: 洪秀真/ Name of the person who made measurement: Jean Hung
- 2) 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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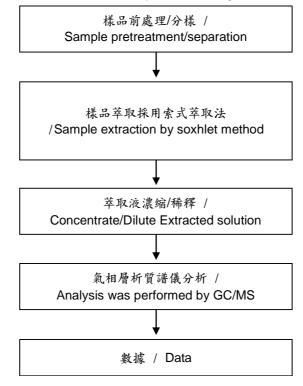
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

1)測試人員: 陳威錚 / Name of the person who made measurement: Dorothy Chen

2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

> > KA/2015/11345



** 報告結尾(End of Report) **

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DAEJOO ELECTRONICS MATERIALS CO., LTD.

148,Seohaean-ro Siheung-city,Gyeonggi-do Korea

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

SGS File No. : AYAA14-40141

Product Name : Ag paste

Item No./Part No. : N/A

Client Reference Data: DS-0086IEC(Y140819), DS-9083L-5(Y140619), DS-9083L-5HV(Y140617)

Received Date : 2014. 08. 20

Test Period : 2014. 08. 21 to 2014. 08. 25

Report Comments : By the applicant's request, item No.s/part No.s & client reference information are stated/added on

report.

Test Results : For further details, please refer to following page(s)

SGS Korea Co., Ltd.

Issued Date: 2014. 08. 25

Jeff Jang / Chemical Lab Mgr

Page 1 of 6

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Sample No. : AYAA14-40141.001

Sample Description : Ag paste

Item No./Part No. : N/A
Materials : N/A

Heavy Metals

| Test Items | Unit | Test Method | MDL | Results |
|-----------------------------|-------|---|-----|---------|
| Cadmium (Cd) | mg/kg | With reference to IEC 62321-5:2013 (Determination of Cadmium by ICP-OES) | 0.5 | N.D. |
| Lead (Pb) | mg/kg | With reference to IEC 62321-5:2013 (Determination of Lead by ICP-OES) | 5 | N.D. |
| Mercury (Hg) | mg/kg | With reference to IEC 62321-4:2013 (Determination of Mercury by ICP-OES) | 2 | N.D. |
| Hexavalent Chromium (Cr VI) | mg/kg | With reference to IEC 62321:2008 (Determination of Hexavalent Chromium by spot test/Colorimetric Method using UV-Vis) | 1 | N.D. |

Issued Date: 2014. 08. 25

Page 2 of 6

Flame Retardants-PBBs/PBDEs

| Test Items | Unit | Test Method | MDL | Results |
|--------------------------|-------|---|-----|---------|
| Monobromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Dibromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Tribromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Tetrabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Pentabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Hexabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Heptabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Octabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Nonabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Decabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Monobromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Dibromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Tribromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Tetrabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |

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Sample No. : AYAA14-40141.001

Sample Description : Ag paste

Item No./Part No. : N/A
Materials : N/A

Flame Retardants-PBBs/PBDEs

| Test Items | Unit | Test Method | MDL | Results |
|--------------------------|-------|---|-----|---------|
| Pentabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Hexabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Octabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Nonabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |
| Decabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBBs and PBDEs by GC-MS) | 5 | N.D. |

Halogen Content

| Test Items | Unit | Test Method | MDL | Results |
|--------------|-------|--------------------------------|-----|---------|
| Bromine(Br) | mg/kg | With reference to EN 14582, IC | 30 | N.D. |
| Chlorine(Cl) | mg/kg | With reference to EN 14582, IC | 30 | N.D. |

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

(2) mg/kg = ppm

(3) MDL = Method Detection Limit

(4) - = No regulation

(5) Negative = Undetectable / Positive = Detectable

(6) ** = Qualitative analysis (No Unit)

(7) * = 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.

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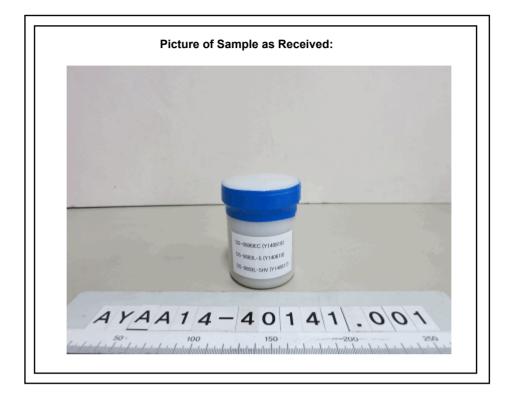
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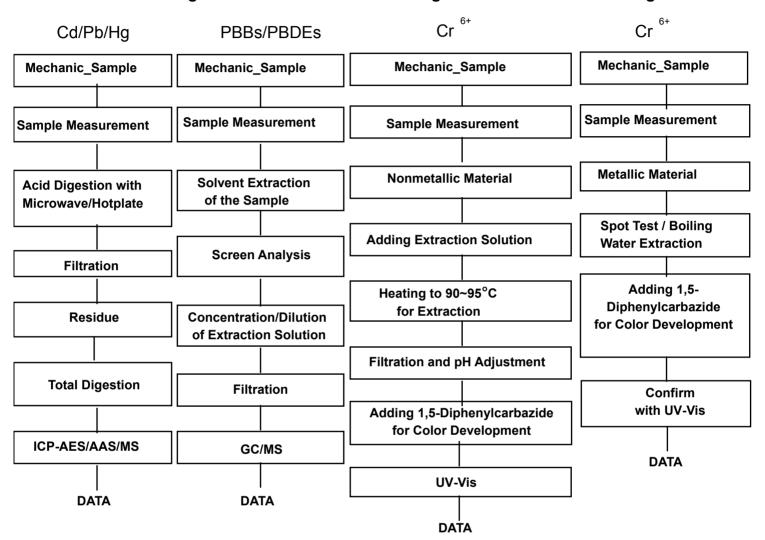
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Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr6+ /PBBs&PBDEs Testing

Issued Date: 2014. 08. 25



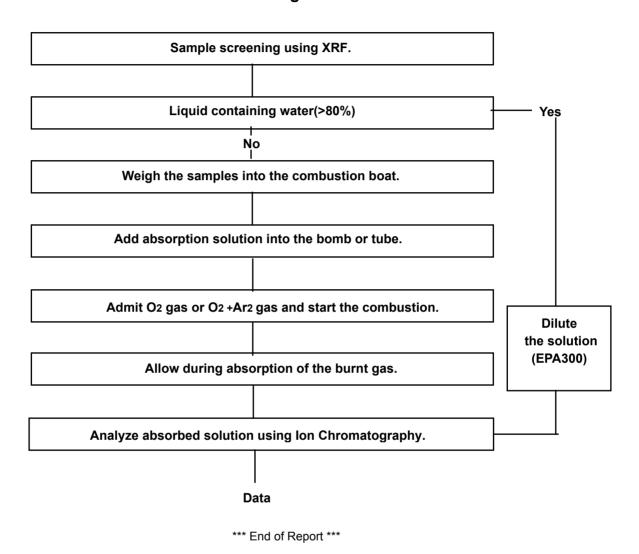
The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg. Section Chief: Gilsae Yi

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Flow Chart for Halogen Test



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Test Report No.: CE/20

No.: CE/2014/B1560 Date: 2014/11/21 Page: 1 of 13

Vale Canada Limited

200 Bay Street, Royal Bank Plaza, Suite 1600, South Tower, P.O. Box 70, Toronto, Ontario, M5J 2K2, Canada

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

Sample Submitted By : Vale Canada Limited

Sample Description : VALE Electrolytic Nickel S Rounds

Sample Receiving Date : 2014/11/12

Testing Period : 2014/11/12 TO 2014/11/21

Test Result(s) : Please refer to next page(s).

Conclusion: Based on the performed tests on submitted samples, the test results of Cadmium,

Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs comply with the limits

as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Troy Changi Manager - Tech Signed for and on behalf of SGS TAIWAN LTD. Chemical Laboratory - Taipei



No.: CE/2014/B1560 Date: 2014/11/21 Page: 2 of 13

Vale Canada Limited

200 Bay Street, Royal Bank Plaza, Suite 1600, South Tower, P.O. Box 70, Toronto, Ontario, M5J 2K2, Canada

Test Result(s)

PART NAME No.1 : SILVER COLORED METAL

| Test Item(s) | Unit | Method | MDL | Result | Limit |
|--|-------|---|-------|--------------|-------|
| Cadmium (Cd) | mg/kg | With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | No.1 n.d. | 100 |
| Lead (Pb) | mg/kg | With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | n.d. | 1000 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321-4: 2013 and performed by ICP-AES. | 2 | n.d. | 1000 |
| Hexavalent Chromium Cr(VI) | ** | With reference to IEC 62321: 2008 and performed by Boiling water extraction (UV-VIS) Method.# | # | Negative | # |
| Antimony (Sb) | mg/kg | With reference to US EPA Method 3050B. Analysis was performed by ICP-AES. | 2 | n.d. | - |
| Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide) | mg/kg | With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS. | 10 | n.d. | - |
| PFOA (CAS No.: 335-67-1) | mg/kg | With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS. | 10 | n.d. | - |
| PVC | ** | Analysis was performed by FTIR and FLAME Test. | - | Negative | - |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | mg/kg | With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS. | 5 | n.d. | - |
| BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. | - |
| DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. | - |
| DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.01 | n.d. | - |



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Vale Canada Limited

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| Test Item(s) | Unit Method | | MDL | Result | Limit |
|--|-------------|--|-------|--------|--------|
| rest item(s) | Oill | Metriou | WIDL | No.1 | LIIIII |
| DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.01 | n.d. | - |
| DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. | - |
| DBP (Dibutyl phthalate) (CAS No.: 84-74-2) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. | - |
| Sum of PBBs | mg/kg | | - | n.d. | 1000 |
| 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 | With reference to IEC 62321: 2008 and | 5 | n.d. | - |
| Sum of PBDEs | mg/kg | performed by GC/MS. | - | n.d. | 1000 |
| Monobromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Dibromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Tribromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Tetrabromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Pentabromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Hexabromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Heptabromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Octabromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Nonabromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Decabromodiphenyl ether | mg/kg | | 5 | n.d. | - |



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| Test Item(s) | Unit | Method | MDL | Result No.1 | Limit |
|---|-------|-------------------------------------|-----|----------------|-------|
| Halogen | | | | | |
| Halogen-Fluorine (F) (CAS No.: 14762-94-8) | mg/kg | With reference to BS EN 14582:2007. | 50 | n.d. | - |
| Halogen-Chlorine (CI) (CAS No.: 22537-15-1) | mg/kg | | 50 | n.d. | - |
| Halogen-Bromine (Br) (CAS No.: 10097-32-2) | mg/kg | Analysis was performed by IC. | 50 | n.d. | - |
| Halogen-Iodine (I) (CAS No.: 14362-44-8) | mg/kg | | 50 | n.d. | - |

Note:

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated
- 5. ** = Qualitative analysis (No Unit)
- 6. Negative = Undetectable / Positive = Detectable
- 7. # = a. Positive means the presence of CrVI on the tested areas
 - b. Negative means the absence of CrVI on the tested areas

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas.

PFOS Reference Information: POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².

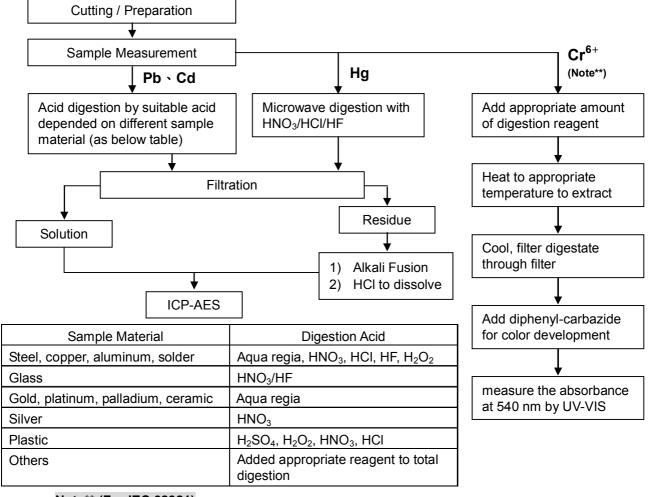


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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6^+} test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62321)

- (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 ℃.
- (2) For metallic material, add pure water and heat to boiling.



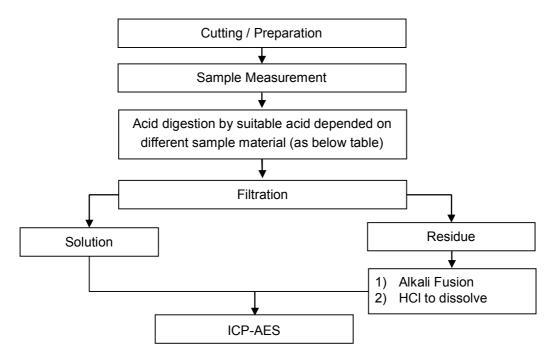
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- These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

Flow Chart of digestion for the elements analysis performed by ICP-AES



| Steel, copper, aluminum, solder | Aqua regia, HNO ₃ , HCl, 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 , HCl |
| Others | Added appropriate reagent to total digestion |



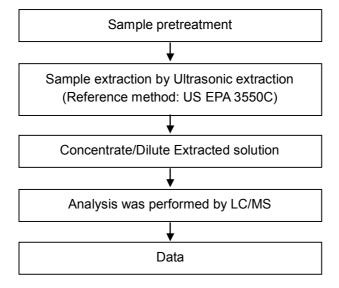
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PFOA/PFOS analytical flow chart of Ultrasonic extraction (LC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang





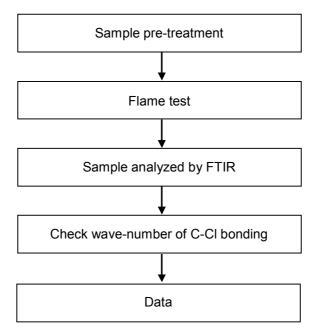
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Analysis flow chart for determination of PVC in material

- Name of the person who made measurement: Roy Lin
- Name of the person in charge of measurement: Troy Chang





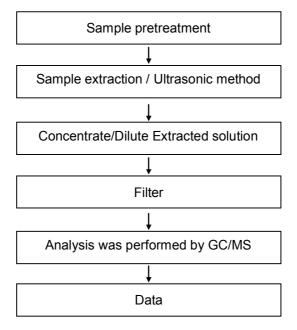
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Vale Canada Limited

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HBCDD analytical flow chart

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang





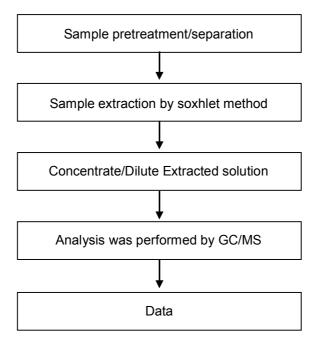
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Analytical flow chart of phthalate content

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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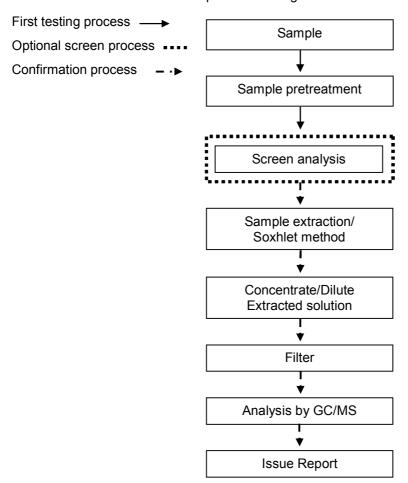
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Vale Canada Limited

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PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang





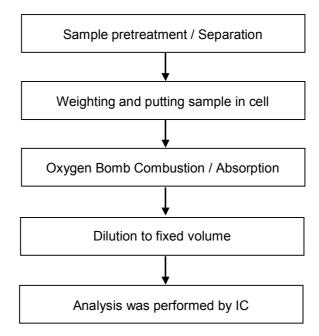
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Vale Canada Limited

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Analytical flow chart of halogen content

- Name of the person who made measurement: Rita Chen
- Name of the person in charge of measurement: Troy Chang





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* The tested sample / part is marked by an arrow if it's shown on the photo. *

CE/2014/B1560



** End of Report **



Test Report

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研澤科技股份有限公司 R-BRIGHT TECHNOLOGY CO., LTD.

桃園縣龜山鄉永安街52號3樓

3F, NO. 52, YONG-AN ST., GUEISHAN SHIANG, TAOYUAN COUNTY 333, TAIWAN (R. O. C.)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By) : 研澤科技股份有限公司 (R-BRIGHT TECHNOLOGY CO., LTD.)

樣品名稱(Sample Description) : PURE TIN ANODE BALL (純錫陽極半球)

收件日期(Sample Receiving Date) : 2014/12/17

測試期間(Testing Period) : 2014/12/17 TO 2014/12/24

測試需求(Test Requested)

(1) 依據客户要求,參考RoHS 2011/65/EU Annex II 指令進行鎘, 鉛, 汞, 六價鉻, 多溴聯苯, 多溴聯苯醚測試. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)

(2) 依據客户指定,進行鹵素-氟、氯、溴、碘測試. (As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine contents in the submitted sample.)

測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

Albana Action Results) . May 1 3 (Trease refer to hear pages).

: (1) 根據客户所提供的樣品,其鎬,鉛,汞,六價鉻,多溴聯苯,多溴聯苯醚的測試結果符合RoHS指令2002/95/EC的更新指令2011/65/EU之要求 (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.)

Edison Chang/Sr, Supervisor Signed for and on behalf of

結論(Conclusion)

SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試部位(PART NAME) No.1 : 銀色金屬 (SILVER COLORED METAL)

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限値 (MDL) | 結果 (Result) No.1 | 法規 限値 (Limit) |
|--|--------------|---|----------------------|------------------------|---------------------|
| 鎬 / Cadmium (Cd) | mg/kg | 參考IEC 62321-5: 2013方法,以感應耦合電漿原子發射光譜儀檢測./ With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | n.d. | 100 |
| 鉛 / Lead (Pb) | mg/kg | 參考IEC 62321-5: 2013方法,以感應耦合電漿原子發射光譜儀檢測./ With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | 8 | 1000 |
| 汞 / Mercury (Hg) | mg/kg | 參考IEC 62321-4: 2013方法,以感應耦合電漿原子發射光譜儀檢測./ With reference to IEC 62321-4: 2013 and performed by ICP-AES. | 2 | n.d. | 1000 |
| 六價络 / Hexavalent Chromium Cr(VI) | ** | 参考IEC 62321: 2008方法,以沸水 萃取法檢測. / With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.# | # | Negative | # |
| 鹵素 / Halogen | | | | | |
| 鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8) | | | 50 | n.d. | - |
| 鹵素(氯)/ Halogen-Chlorine (C1) (CAS No.: 22537-15-1) | | 參考BS EN 14582:2007, 以離子層析 儀分析. / With reference to BS | 50 | n.d. | - |
| 鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2) | mg/kg | EN 14582:2007. Analysis was performed by IC. | 50 | n.d. | - |
| 鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8) | | | 50 | n.d. | - |

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3F, NO. 52, YONG-AN ST., GUEISHAN SHIANG, TAOYUAN COUNTY 333, TAIWAN (R. O. C.)

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限値 (MDL) | 結果 (Result) No.1 | 法規 限値 (Limit) |
|----------------------------------|--------------|---|----------------------|------------------------|---------------------|
| 多溴聯苯總和 / Sum of PBBs | | 参考IEC 62321: 2008方法,以氣相層析/質譜儀檢測./ With reference to IEC 62321: 2008 and performed by GC/MS. | - | n.d. | 1000 |
| 一溴聯苯 / Monobromobiphenyl | | | 5 | n.d. | - |
| 二溴聯苯 / Dibromobiphenyl | | | 5 | n.d. | - |
| 三溴聯苯 / Tribromobiphenyl | | | 5 | n.d. | - |
| 四溴聯苯 / Tetrabromobiphenyl | | | 5 | n.d. | - |
| 五溴聯苯 / Pentabromobiphenyl | | | 5 | n.d. | - |
| 六溴聯苯 / Hexabromobiphenyl | | | 5 | n.d. | - |
| 七溴聯苯 / Heptabromobiphenyl | | | 5 | n.d. | - |
| 八溴聯苯 / Octabromobiphenyl | | | 5 | n.d. | - |
| 九溴聯苯 / Nonabromobiphenyl | | | 5 | n.d. | - |
| 十溴聯苯 / Decabromobiphenyl | mg/kg | | 5 | n.d. | - |
| 多溴聯苯醚總和 / Sum of PBDEs | mg/ kg | | - | n.d. | 1000 |
| 一溴聯苯醚 / Monobromodiphenyl ether | | | 5 | n.d. | - |
| 二溴聯苯醚 / Dibromodiphenyl ether | | | 5 | n.d. | - |
| 三溴聯苯醚 / Tribromodiphenyl ether | | | 5 | n.d. | - |
| 四溴聯苯醚 / Tetrabromodiphenyl ether | | | 5 | n.d. | - |
| 五溴聯苯醚 / Pentabromodiphenyl ether | | | 5 | n.d. | - |
| 六溴聯苯醚 / Hexabromodiphenyl ether | | | 5 | n.d. | - |
| 七溴聯苯醚 / Heptabromodiphenyl ether | | | 5 | n.d. | - |
| 八溴聯苯醚 / Octabromodiphenyl ether | | | 5 | n.d. | - |
| 九溴聯苯醚 / Nonabromodiphenyl ether | | | 5 | n.d. | - |
| 十溴聯苯醚 / Decabromodiphenyl ether | | | 5 | n.d. | _ |

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R-BRIGHT TECHNOLOGY CO., LTD.

桃園縣龜山鄉永安街52號3樓

3F, NO. 52, YONG-AN ST., GUEISHAN SHIANG, TAOYUAN COUNTY 333, TAIWAN (R. O. C.)

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6.# = a. Positive means the presence of CrVI on the tested areas (Positive表示測試區域偵測到六價鉻)
 - b. Negative means the absence of CrVI on the tested areas (Negative表示測試區域未偵測到六價鉻)

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas. / 該溶液濃度≧0.02 mg/kg with 50 cm² (tested areas)

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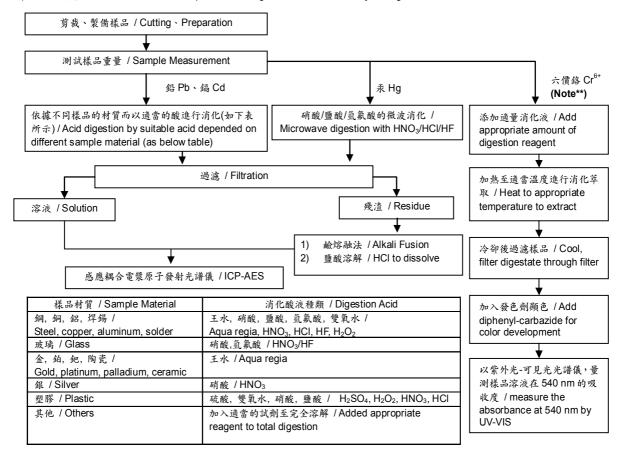
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3F, NO. 52, YONG-AN ST., GUEISHAN SHIANG, TAOYUAN COUNTY 333, TAIWAN (R. O. C.)

- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Note**:(1) 針對非金屬材料加入鹼性消化液 · 加熱至 90~95℃ 萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.

(2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.



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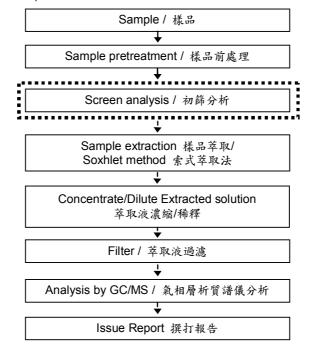
研澤科技股份有限公司 R-BRIGHT TECHNOLOGY CO., LTD. 桃園縣龜山鄉永安街52號3樓

3F, NO. 52, YONG-AN ST., GUEISHAN SHIANG, TAOYUAN COUNTY 333, TAIWAN (R. O. C.)

多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

確認程序 / Confirmation process - - - - ▶





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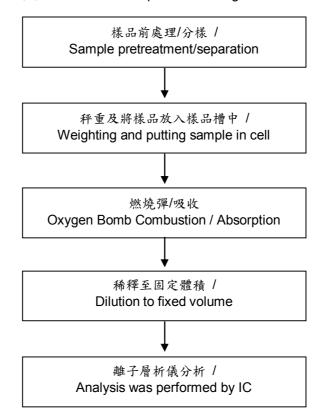
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桃園縣龜山鄉永安街52號3樓

3F, NO. 52, YONG-AN ST., GUEISHAN SHIANG, TAOYUAN COUNTY 333, TAIWAN (R. O. C.)

鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員:陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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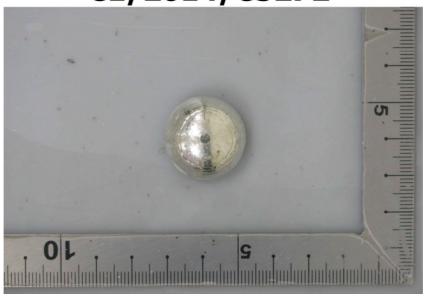
桃園縣龜山鄉永安街52號3樓

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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. *

(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2014/C3272



** 報告結尾(End of Report) **