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THINKING ELECTRONIC INDUSTRIAL CO., LTD.

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.)	:
KAOSHIUNG FACTORY(KAOSHIUNG FACTORY)	: NO.51,KAIFA RD., NANTZE EXPORT PROCESSING ZONE, KAOHSIUNG CITY 81170,TAIWAN
CHANGZHOU FACTORY (CHANGZHOU FACTORY)	: WUJIN HIGH & NEW TECH IND.DEVELOPMENT ZONE, HUTANG, WUJIN, CHANGZHOU CITY, JIANGSU 213161, CHINA.
DONG GUAN FACTORY (DONG GUAN FACTORY)	: CHIAO-TOU TSUN.SHA-TAO HSIANG.CHANG-AN TOWN,DONG-GUAN CITY,GUANG- DONG,CHINA.
收件日期(Sample Receiving Date)	: 2014/11/11
測試期間(Testing Period)	: 2014/11/11 TO 2014/11/17
送樣廠商(Sample Submitted By)	: 興勤電子工業股份有限公司楠梓分公司 (THINKING ELECTRONIC INDUSTRIAL CO., LTD.)

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).



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THINKING ELECTRONIC INDUSTRIAL CO., LTD.

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<u>測試結果(Test Results)</u>

測試部位(PART NAME) NO.1

銀色/黑色 ZNO VARISTOR TVM/V91 SERIES (SILVER/BLACK ZNO VARISTOR TVM/V91 SERIES)

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
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.
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	14.2
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.
六價貉 / 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.

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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
多溴聯苯總和 / Sum of PBBs			-	n.d.
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		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		2008 and performed by GC/MS.	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			5	n.d.
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.
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		參考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		2008 and performed by GC/MS.	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.
全氟辛烷磺酸 / Perfluorooctane	mg/kg	參考US EPA 3550C: 2007方法,以液相層析/質	10	n.d.
sulfonates		譜儀檢測. / With reference to US EPA		
(PFOS - Acid, Metal Salt, Amide)		3550C: 2007. Analysis was performed by		
		LC/MS.		
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
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	参考BS EN 14582:2007,以離子層析儀分析./ With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007,以離子層析儀分析./ With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	参考BS EN 14582:2007,以離子層析儀分析./ With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.

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 (無規格値)

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 $1\mu g/m^2$.)

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