

<u>Material Test Reports - Insulated Terminals</u>

Materials test reports as supplied from our manufacturer/partner for Insulated Terminals, manufactured and tested to meet Cablecraft standards.



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測試報告 **Test Report**

號碼(No.): KA/2016/40771 日期(Date): 2016/04/21 頁數(Page): 1 of 8

集勝端子股份有限公司

JEESOON TERMINALS CO., LTD.

504 彰化縣秀水鄉彰水路二段102巷11號

NO.11, LANE 102, SEC-2, CHANG SOYE ROAD, HSIU SHUI HSIANG, CHANG HUA HSIEN, TAIWAN

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)

: 藍色PVC (BLUE PVC INSULATED TUBE)

#733-BLUE

: 2016/04/15

: 2016/04/15 TO 2016/04/21

: 集勝端子股份有限公司 (JEESOON TERMINALS CO., LTD.)

測試需求(Test Requested)

: (1) 依據客户指定,參考RoHS2011/65/EU Annex II及其修訂指令(EU) 2015/863測試 鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.)

(2) 其他測試項目請見下一頁 . (Please refer to next pages for the other item(s).)

: 請見下一頁 (Please refer to next pages).

: 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, DBP, BBP, DEHP, DIBP的測試結果符合RoHS指令暨(EU) 2015/863之限值要求. (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS and amending Directive (EU) 2015/863.)

測試結果(Test Results)

論(Conclusion)

Ray Chang Ph.D. / Mana Signed for and on behalf o

SGS Taiwan Limited

Chemical Laboratory-Kaohsiung

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測試結果(Test Results)

測試部位(PART NAME) NO.1

藍色PVC (BLUE PVC INSULATED TUBE)

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	参考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	参考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.	1000
汞 / Mercury (Hg)	mg/kg	参考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
六價鉻 / 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.	1000
多溴聯苯總和 / Sum of PBBs		參考IEC 62321-6: 2015方法,以氣相層析/質譜儀檢測./ With reference to IEC 62321-6: 2015 and performed by GC/MS.		n.d.	1000
一溴聯苯 / Monobromobiphenyl]		5	n.d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		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			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	法規 限値 (Limit)
多溴聯苯醚總和 / Sum of PBDEs			-	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	mg/kg	参考IEC 62321-6: 2015方法,以氣相層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS.	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.	=
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg		50	n.d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)			50	n.d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		參考IEC 62321-8 (111/321/CD),以氣相層析儀/質譜儀檢測之./ With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117- 81-7)			50	n.d.	1000
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)			50	n.d.	
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)			50	n.d.	
鄰苯二甲酸二異癸酯 / DIDP (D▶-isodecyl phthalate) (CAS No.: 26761-40-0; 68515- 49-1)			50	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 (方法偵測極限値)
- 4. "-" = Not Regulated (無規格值)

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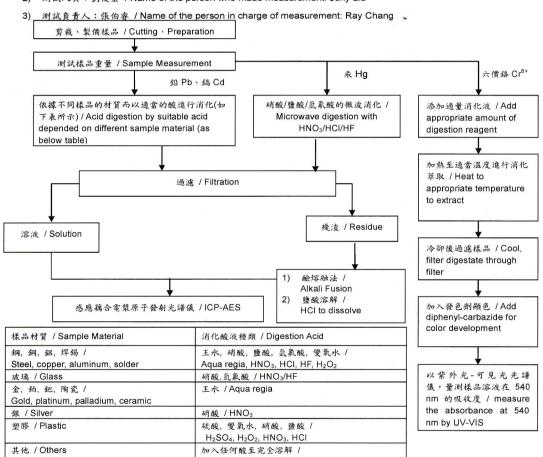
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 测試人員:劉俊宏 / Name of the person who made measurement: Jony Liu



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 90~95 °C.

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

Any acid to total digestion

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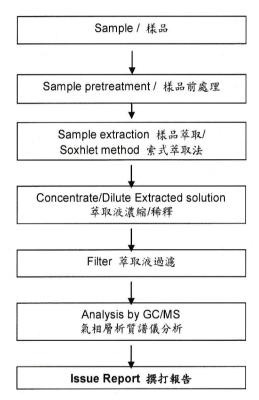
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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1)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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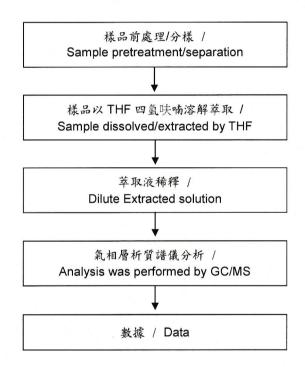
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

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

【測試方法/Test method: IEC 62321-8】



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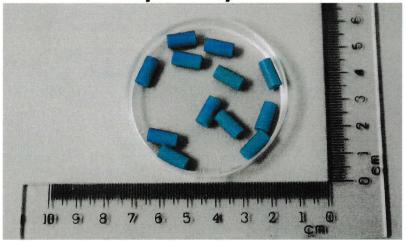
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