

測試報告 Test Report ^{號碼(No.)}: CE/2018/80602

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凱士士企業股份有限公司 KAI SUH SUH ENTERPRISE CO., LTD. 台北市延平北路一段38號 38, YEN PING N. RD., SEC. 1, TAIPEI, 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):

樣品名稱(Sample Description)	:	NYLON CABLE TIE(NATURAL)/ 尼龍紮線帶(本色)
同材質/產品名稱/型號(Sample	:	請參考第5頁 (PLEASE REFER TO PAGE 5)
Material/Sample		
Description/Style/Item No.)		
樣品材質(Sample Material)	:	NYLON66, 94V-2 (NATURAL)
收件日期(Sample Receiving Date)	:	2018/08/03
測試期間(Testing Period)	:	2018/08/03 TO 2018/08/10

測試需求(Test Requested):

- (1) 依據客戶指定,參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯

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

测試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

結論(Conclusion): (1) 根據客戶所提供的樣品,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 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求. (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)



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<u>测試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 半透明塑膠 (TRANSLUCENT PLASTIC)

测試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
鎘 / Cadmium (Cd)	mg/kg	参考IEC 62321-5 (2013),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		2	n. d.	1000
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4 (2013),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)	mg/kg	参考IEC 62321-7-2 (2017),以UV-VIS 檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.	8	n. d.	1000
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321-6 (2015),以氣相層析 儀/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	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		5	n.d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	_
六溴聯苯 / Hexabromobiphenyl	mg/kg		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	限值 (Limit)
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n. d.	1000
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	ななIEC CODO1 C (DO15) いたいだい	5	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	參考IEC 62321-6 (2015),以氣相層析	5	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	儀/質譜儀檢測. / With reference to	5	n. d.	_
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	IEC 62321-6 (2015) 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.	-
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP	mg/kg		50	n.d.	1000
(Di- (2-ethylhexyl) phthalate) (CAS					
No.: 117-81-7)					
鄰苯二甲酸丁苯甲酯 / BBP (Butyl	mg/kg		50	n. d.	1000
Benzyl phthalate) (CAS No.: 85-68-7)					
鄰苯二甲酸二丁酯 / DBP (Dibutyl	mg/kg	1	50	n. d.	1000
phthalate) (CAS No.: 84-74-2)					
鄰苯二甲酸二異丁酯 / DIBP (Di-	mg/kg		50	n.d.	1000
isobutyl phthalate) (CAS No.: 84-69-		參考IEC 62321-8 (2017),以氣相層析			
5)		儀/質譜儀檢測. / With reference to			
鄰苯二甲酸二異癸酯 / DIDP(Di-	mg/kg	IEC 62321-8 (2017). Analysis was	50	n. d.	-
isodecyl phthalate) (CAS No.: 26761-		performed by GC/MS.			
40-0; 68515-49-1)					
鄰苯二甲酸二異壬酯 / DINP (Di-	mg/kg		50	n.d.	-
isononyl phthalate) (CAS No.: 28553-					
12-0; 68515-48-0)					
鄰苯二甲酸二正辛酯 / DNOP (Di-n-	mg/kg		50	n. d.	-
octyl phthalate) (CAS No.: 117-84-0)					
鄰苯二甲酸二正己酯 / DNHP(Di-n-	mg/kg		50	n. d.	_
hexyl phthalate) (CAS No.: 84-75-3)					

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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)

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同材質產品型號(Item No. from the same material): AWS, PC, AP, ATC, MMR, TV, BCS, UC, KUC, TS, PTS, DCC, RC, CTF, SN, DN, CAP, CATV, KFC, KFS, MAT, BE, BT, CTT, CE, CDW, DR, DCV, RDCV, KTV, DL, DK, DR, BGQ, PAQ, HL, ES, CV, FC, FCT, FCP, FCW, BG, SR, SR, FD, HBW, HTN, HTP, HTS, HP, HPA, RHR, FCV, RRCV, TV, STV, LD3, LE, LK, LX, LQT, LQ, LDT, LY, LG3, LG, LH, LHN, PLU, LHK, PLK, PLM, PLX, PLW, PLD1, PLD2, PLD4, PLT, PLR, PCL, KWS, WS, MT, MS, MCV, KW, TCV, TCVS, TTB, MFC, KG-N, PCC, TRH, PG, AG, AGJ, EG, NPT, PG, AG, EG, AGJ, EGH, AGH, NPTH, AGJH, CV, NV, CVT, LT, CVS, ES, PH, CS, MCS, LCA, SP, SPA, SPB, SPC, SPD, DS, EB, MS, BMS, HMS, TMS, MMS, MMR, KCS, SPS, PB, PST, HGS, GS, SWS, LCS, LCL, PCU, PF, PN, PL, PHV, PCV, PCVS, PFVS, PGV, PSV, PWVS, PWV, PRVS, PDV, PUV, RPFVS, PS, PHC, PFS, M, M, AG, EG, AGJ, NPT, HV, HVC, RCV, HRCV, RS, NPTA, SR, RSP, RW, PMA, HC, CS, CSA, RLS, SCS, SR, MSP, PSP, SCT, 4J, 6J, 8J, 10J, 11J, 12J, HC, VC, FC, SWC, SNB, SB, RSB, OSB, SR, SN, SR, KS, SPR, SGN, ST, SR, TH, TH, THR, TR, TW, TRW, TT, TTU, CH, WR, FC, WH, WCT, JWS, JWB, DWS, OWS, PWS, BWS, TWS, RH, RWS, LWS, RCS, SM, EGL, AGL, NPTL, AGJL, EGH, AGH, NPTH, AGJH, SM, PG%M, LCH, SHW, RC, BPA, VF, DT, CHV, VA, BA, BV, STT, A, DP, AH, T, DV, DE, DP, HB, SWD

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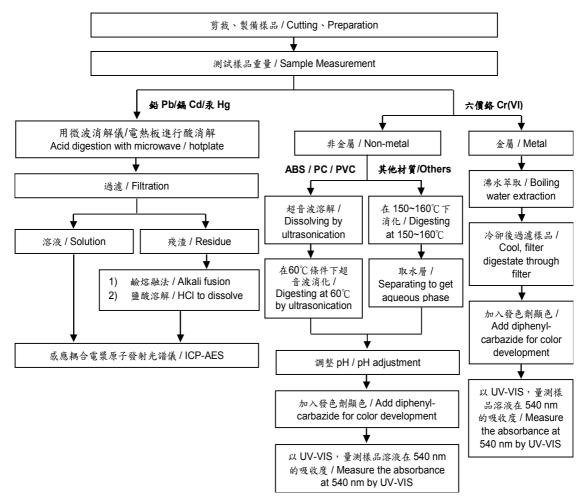
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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)

- 測試人員:陳恩臻 / Technician: Rita Chen
- 測試負責人:張啟興 / Supervisor: Troy Chang



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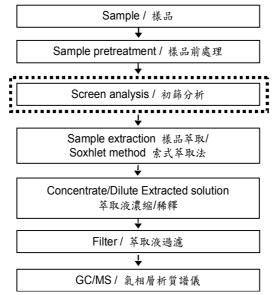
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<u>多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE</u>

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process _____ 選擇性篩檢程序 / Optional screen process _____ 確認程序 / Confirmation process _ . _ . ▶



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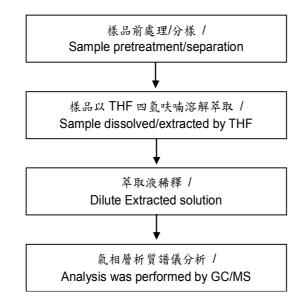
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<u>可塑劑分析流程圖 / Analytical flow chart - Phthalate</u>

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang

【测試方法/Test method: IEC 62321-8】



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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.)



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