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Test Report

有達工業股份有限公司

UTA AUTO INDUSTRIAL CO., LTD.

台中市大里區工業十二路1號(大里工業區)

NO. 1, GONGYE 12TH RD., DALI DIST., TAICHUNG CITY 412, 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) : 有達工業股份有限公司 (UTA AUTO INDUSTRIAL CO., LTD.)

樣品名稱(Sample Description) : 保險絲座 (Fuse Holder) / 旋轉端子 (Wire Nut) /

接線夾 (Quick Splice) / 絕緣中接管 (Insulated Butt Splice) /

絕緣窗型中接管(Insulated Multilink Butt Splices) / 絕緣高拉力中接管 (Insulated Double Crimp Butt Splice) /

絕緣熱縮中接管 (Heat Shrink Butt Splice) / 閉端子 (Closde End) /

歐式端子 (Cord End)

: VBX- SERIES / VPX- SERIES / VSDBX- SERIES / VWBX- SERIES / 樣品型號(Style/Item No.)

83X- SERIES / E- SERIES / 80XP/N- SERIES , 811N3 , 85X- SERIES /

NBX- SERIES / NWBX- SERIES / NDBX- SERIES /

BSA-SERIES, WBSA-SERIES / CE-XL SERIES, CE-(S)SERIES / CE-SERIES

收件日期(Sample Receiving Date) : 2018/08/06

測試期間(Testing Period) : 2018/08/06 TO 2018/08/13

依據客戶指定,進行鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚測試. (As specified by 測試需求(Test Requested):

client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the

submitted sample(s).)

請參閱下一頁 (Please refer to following pages). 測試方法(Test Method) 請參閱下一頁 (Please refer to following pages). 測試結果(Test Results)

Signed for and SĞS TAIWAN L Chemical Laboratory -

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測試結果(Test Results)

測試部位(PART NAME)No.1 整體混測 (不含金屬) (MIXED ALL PARTS (EXCLUDING THE METAL))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
	(UIII L)			No. 1
鎬 / Cadmium (Cd)	mg/kg	參考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.
鉛 / Lead (Pb)	mg/kg		2	n. d.
汞 / Mercury (Hg)	mg/kg	參考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.
六價鉻 / Hexavalent Chromium Cr(VI) (◆)	mg/kg	參考IEC 62321-7-2 (2017),以UV-VIS檢測;參考IEC 62321-5 (2013),以ICP-AES檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.; With reference to IEC 62321-5 (2013) and performed by ICP-AES.	8	n. d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321-6 (2015),以氣相層析/質	-	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		5	n. d.
五溴聯苯 / Pentabromobiphenyl		譜儀檢測. / With reference to IEC	5	n. d.
六溴聯苯 / Hexabromobiphenyl	mg/kg	62321-6 (2015) 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 極限值 (MDL)	結果 (Result) No.1
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	参考IEC 62321-6 (2015),以氣相層析/質 譜儀檢測. / With reference to IEC 62321-6 (2015) and performed by GC/MS.	-	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		5	n. d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n. d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		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.

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. **(♠)**:

若鉻含量小於六價鉻之方法偵測極限值,則六價鉻為n.d.,不須再測試六價鉻。

The result of Cr(VI) is "n.d." as the result of Chromium (Cr) is less than the MDL of Cr(VI), and confirmation test of Cr(VI) is not required.

若鉻含量未小於六價鉻之方法偵測極限值,需進行六價鉻測試。

If the Chromium (Cr) content is not less than the MDL of Cr(VI), confirmation test of Cr(VI) is required.

6. 樣品的測試是基於申請人要求混合測試,報告中的混合測試結果不代表其中個別單一材質的含量.

(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

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台中市大里區工業十二路1號(大里工業區)

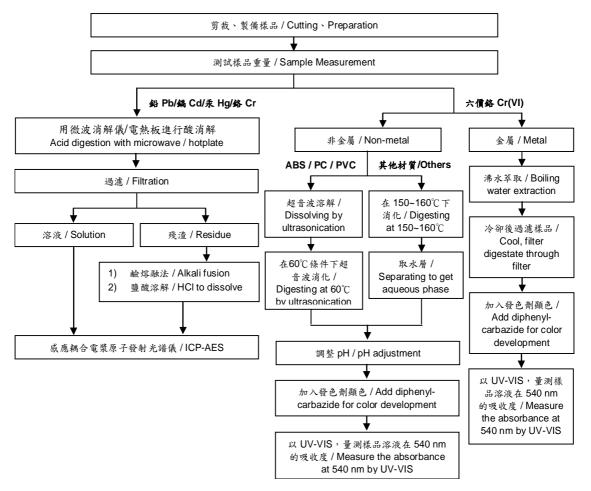
NO. 1, GONGYE 12TH RD., DALI DIST., TAICHUNG CITY 412, TAIWAN (R. O. C.)

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. (Cr^{6+} 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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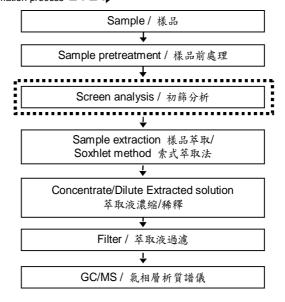
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

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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* 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/2018/80960



** 報告結尾 (End of Report) **

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