

檢測報告

Test Report

報告編號 ECL01G007145001E
Report No. ECL01G007145001E

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申請單位 全科企業股份有限公司
Applicant PANTECH TAPE CO., LTD
地 址 32669 桃園縣楊梅市中山南路 800 巷 98 弄 8 號
Address NO. 8, ALLEY 98, LANE 800, CHUNG-SHAN SOUTH ROAD, YANGMEI, TAOYUAN 32669

以下測試之樣品及樣品信息由申請者提供並確認

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

樣品名稱 Sample Name PET 電氣絕緣膠帶 POLYESTER ELECTRICAL TAPE
樣品型號 Part No. PT-258L 黃 PT-258L(Yellow)
材料名稱 Material PET Film
樣品顏色 Color 黃色 Yellow
供應商 Supplier 全科企業股份有限公司 PANTECH TAPE CO., LTD
製造商 Manufacturer 全科企業股份有限公司 PANTECH TAPE CO., LTD
樣品接收日期 2014.07.31
Sample Received Date Jul.31,2014
樣品檢測日期 2014.07.31 - 2014.08.02
Testing Period Jul.31,2014 to Aug.2,2014
檢測要求 請參見下頁
Test Requested Please refer to following page(s).

結論 Conclusion

測試樣品 Tested Sample	依據指令 According to directive	結果 Result
提交樣品 Submitted Sample	2011/65/EU*	合格 Pass

*2011/65/EU 為歐盟 RoHS 指令 (2002/95/EC) 的重訂指令。該指令對電子電器產品中的特定有毒有害物質 (鉛 (Pb), 鎘 (Cd), 汞 (Hg), 六價鉻 (Cr(VI)), 多溴聯苯 (PBBs), 多溴二苯醚 (PBDEs)) 限制使用。合格表示檢測結果不超過歐盟 RoHS 指令 2011/65/EU 要求的限值。

*2011/65/EU is a new version of RoHS Directive (2002/95/EC), which focuses on restriction of the use of certain hazardous substances (Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)) in electrical and electronic equipment.

Pass means that the results shown on the report do not exceed the limits set by RoHS Directive 2011/65/EU.

主 檢
Tested by Chen Lijuan

審 核
Reviewed by Chen Kaimin

批 准
Ap Su Hongwei

日 期
Date 2014.08.02



Su Hongwei
Laboratory Manager

No. R187772073

深圳華測檢測技術股份有限公司上海分公司

上海市浦東新區新金橋路 1996 號

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檢測要求

根據客戶要求，對所提交樣品中的鉛(Pb)，鎘(Cd)，汞(Hg)，六價鉻(Cr(VI))，多溴聯苯(PBBs)，多溴二苯醚(PBDEs)進行測試。

Test Requested

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs) in the submitted sample(s).

檢測依據 Test Method

測試項目 Tested Item(s)	測試方法 Test Method	測試儀器 Measured Equipment(s)
鉛(Pb) Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
鎘(Cd) Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
汞(Hg) Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
六價鉻(Cr(VI)) Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
多溴聯苯(PBBs) Polybrominated Biphenyls (PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
多溴二苯醚(PBDEs) Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS

檢測結果 Test Result(s)

測試項目 Tested Item(s)	結果 Result	方法檢測限 MDL	2011/65/EU 指令限值 Limit of Directive 2011/65/EU
鉛(Pb) Lead (Pb)	N.D.	2mg/kg	1000 mg/kg
鎘(Cd) Cadmium (Cd)	N.D.	2mg/kg	100 mg/kg
汞(Hg) Mercury (Hg)	N.D.	2mg/kg	1000 mg/kg
六價鉻(Cr(VI)) Hexavalent Chromium (Cr(VI))	N.D.	2mg/kg	1000 mg/kg

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測試項目 Tested Item(s)	結果 Result	方法檢測限 MDL	2011/65/EU 指令限值 Limit of Directive 2011/65/EU
多溴聯苯 Polybrominated Biphenyls(PBBs)			
一溴聯苯 Monobromodiphenyl	N.D.	5mg/kg	1000 mg/kg
二溴聯苯 Dibromobiphenyl	N.D.	5mg/kg	
三溴聯苯 Tribromobiphenyl	N.D.	5mg/kg	
四溴聯苯 Tetrabromobiphenyl	N.D.	5mg/kg	
五溴聯苯 Pentabromobiphenyl	N.D.	5mg/kg	
六溴聯苯 Hexabromobiphenyl	N.D.	5mg/kg	
七溴聯苯 Heptabromobiphenyl	N.D.	5mg/kg	
八溴聯苯 Octabromobiphenyl	N.D.	5mg/kg	
九溴聯苯 Nonabromobiphenyl	N.D.	5mg/kg	
十溴聯苯 Decabromobiphenyl	N.D.	5mg/kg	
多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5mg/kg	1000 mg/kg
二溴二苯醚 Dibromobiphenyl ether	N.D.	5mg/kg	
三溴二苯醚 Tribromobiphenyl ether	N.D.	5mg/kg	
四溴二苯醚 Tetrabromobiphenyl ether	N.D.	5mg/kg	
五溴二苯醚 Pentabromobiphenyl ether	N.D.	5mg/kg	
六溴二苯醚 Hexabromobiphenyl ether	N.D.	5mg/kg	
七溴二苯醚 Heptabromobiphenyl ether	N.D.	5mg/kg	
八溴二苯醚 Octabromobiphenyl ether	N.D.	5mg/kg	
九溴二苯醚 Nonabromobiphenyl ether	N.D.	5mg/kg	
十溴二苯醚 Decabromobiphenyl ether	N.D.	5mg/kg	

測試樣品/部位描述 塑膠膜與膠

Tested Sample/Part Description Plastic film and adhesive

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注釋： 對於檢測鉛，鎘，汞之樣品已完全溶解。
-N.D. = 未檢出 (小於方法檢測限).
-mg/kg=ppm=百萬分之幾.

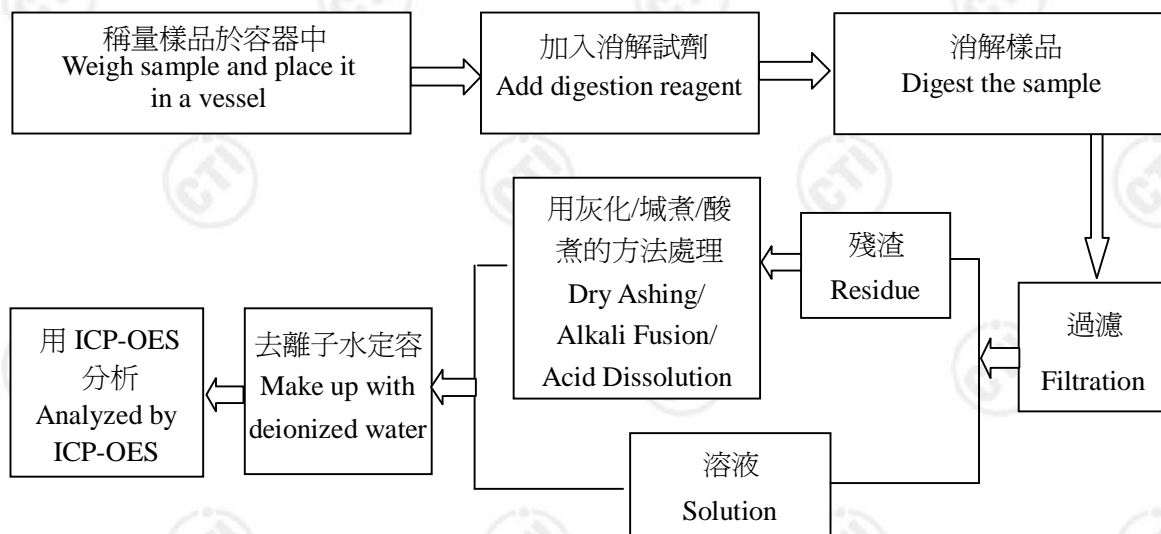
Note : The sample had been dissolved totally tested for Lead, Cadmium, Mercury.
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg= ppm =parts per million.

備註： 報告編號中“E”表示此報告為中英文對照版本。

Remark: The end sign of report number E represents the bilingual version.

檢測流程 Test Process

1. 鉛(Pb)，鎘(Cd) Lead(Pb), Cadmium(Cd)



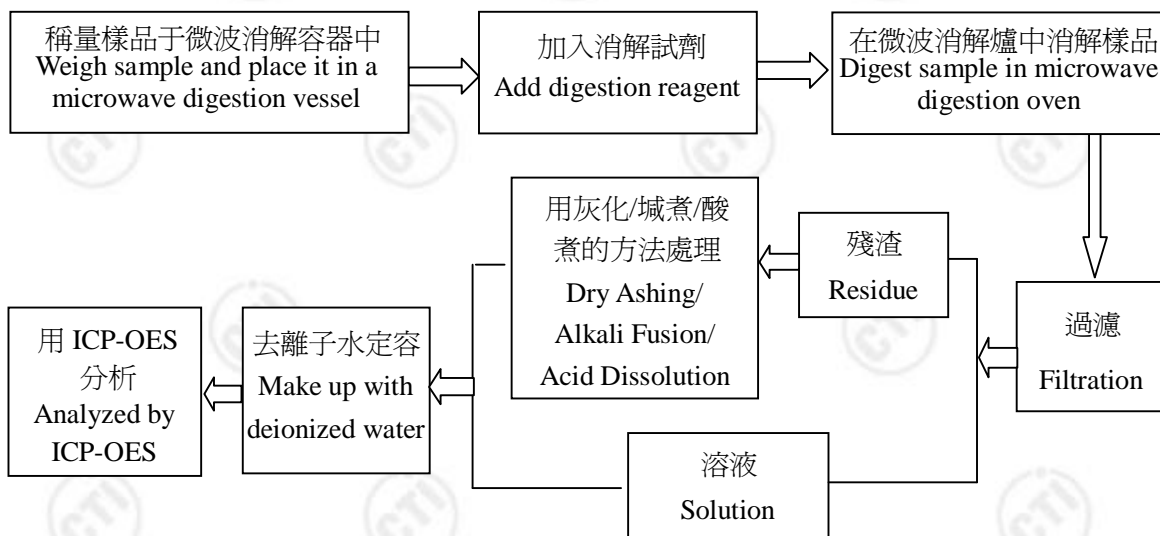
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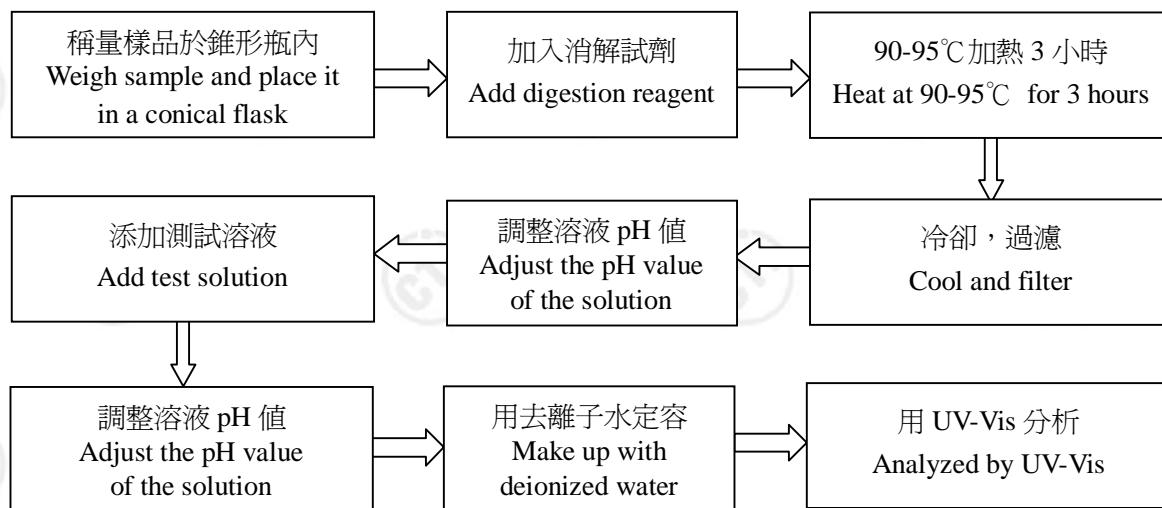
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2. 汞(Hg) Mercury (Hg)



3. 六價鉻(Cr(VI)) Hexavalent Chromium (Cr(VI))



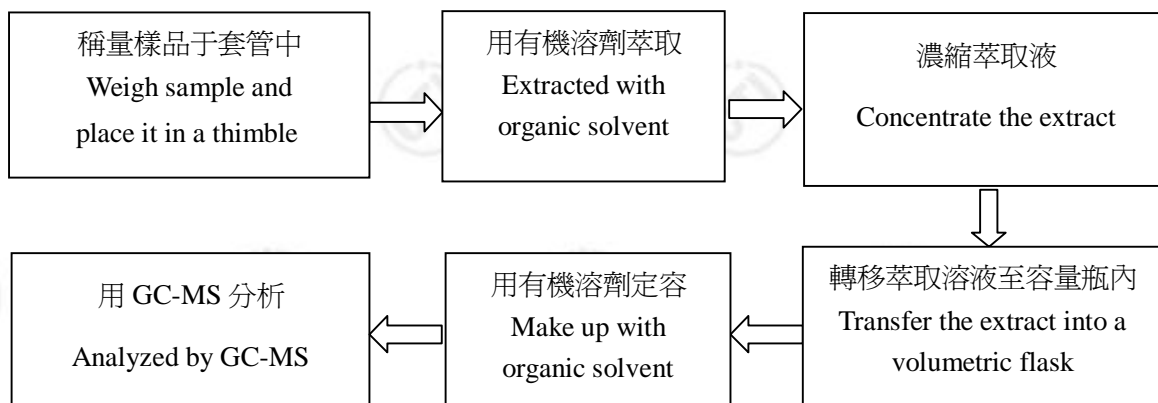
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4. 多溴聯苯(PBBs), 多溴二苯醚(PBDEs)

Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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樣品圖片 Photo(s) of the sample(s)



*** 報告結束 ***

***End of report ***

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