



TEST REPORT

NUMBER : TWNC00079118

APPLICANT 申請商: PANTECH TAPE CO., LTD.
NO 8 ALLEY 98 LANE 800
CHUNG SHAN SOUTH ROAD
YANGMEI TAOYUAN 32669

DATE : JUN 02, 2008

SAMPLE DESCRIPTION 樣品敘述:

ONE (1) GROUP OF SUBMITTED SAMPLES SAID TO BE :

以下測試樣品乃供應商所提供及確認:

SAMPLE DESCRIPTION	:	UV TAPE
樣品名稱		
STYLE / ITEM NO.	:	UV-100 系列、UP-800 系列
產品型號		
SERIES NO.	:	全科企業股份有限公司
系列號碼		
COUNTRY OF ORIGIN	:	TAIWAN
原產國		
DATE SAMPLE RECEIVED	:	MAY 26, 2008
收件日期		
DATE TEST STARTED	:	MAY 27, 2008
開始測試日期		

TEST CONDUCTED 測試執行 :

AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE REFER TO ATTACHED PAGES.
依申請商之要求, 細節請參考附頁 .

AUTHORIZED BY:
ON BEHALF OF INTERTEK TESTING SERVICES
TAIWAN LIMITED



K. Y. LIANG
DIRECTOR

THIS REPORT SHALL NOT BE REPRODUCED
EXCEPT IN FULL, WITHOUT THE WRITTEN
APPROVAL OF THE LABORATORY.



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(I) TEST RESULT SUMMARY 測試結果 :

TESTING ITEM 測試項目	RESULT 結果 (ppm)
	TRANSPARENT PLASTIC TAPE
HEAVY METAL / 重金屬	
CADMIUM (Cd) CONTENT / 鎘含量	ND
LEAD (Pb) CONTENT / 鉛含量	ND
MERCURY (Hg) CONTENT / 汞含量	ND
CHROMIUM VI (Cr ⁶⁺) CONTENT / 六價鉻含量	ND
POLYBROMINATED BIPHENYLS (PBBs) / 多溴聯苯	
MONOBROMINATED BIPHENYLS (MONOBB) / 單溴聯苯	ND
DIBROMINATED BIPHENYLS (DIBB) / 二溴聯苯	ND
TRIBROMINATED BIPHENYLS (TRIBB) / 三溴聯苯	ND
TETRABROMINATED BIPHENYLS (TETRABB) / 四溴聯苯	ND
PENTABROMINATED BIPHENYLS (PENTABB) / 五溴聯苯	ND
HEXABROMINATED BIPHENYLS (HEXABB) / 六溴聯苯	ND
HEPTABROMINATED BIPHENYLS (HEPTABB) / 七溴聯苯	ND
OCTABROMINATED BIPHENYLS (OCTABB) / 八溴聯苯	ND
NONABROMINATED BIPHENYLS (NONABB) / 九溴聯苯	ND
DECABROMINATED BIPHENYL (DECABB) / 十溴聯苯	ND
POLYBROMINATED DIPHENYL ETHERS (PBDEs) / 多溴聯苯醚	
MONOBROMINATED DIPHENYL ETHERS (MONOBDE) / 單溴聯苯醚	ND
DIBROMINATED DIPHENYL ETHERS (DIBDE) / 二溴聯苯醚	ND
TRIBROMINATED DIPHENYL ETHERS (TRIBDE) / 三溴聯苯醚	ND
TETRABROMINATED DIPHENYL ETHERS (TETRABDE) / 四溴聯苯醚	ND
PENTABROMINATED DIPHENYL ETHERS (PENTABDE) / 五溴聯苯醚	ND
HEXABROMINATED DIPHENYL ETHERS (HEXABDE) / 六溴聯苯醚	ND
HEPTABROMINATED DIPHENYL ETHERS (HEPTABDE) / 七溴聯苯醚	ND
OCTABROMINATED DIPHENYL ETHERS (OCTABDE) / 八溴聯苯醚	ND
NONABROMINATED DIPHENYL ETHERS (NONABDE) / 九溴聯苯醚	ND
DECABROMINATED DIPHENYL ETHER (DECABDE) / 十溴聯苯醚	ND

CHEMIST: INORGANIC (ATHY OU/CHRIS YANG)
分析人員 ORGANIC (YIAN LEE)

REMARKS 備註 : ppm = PARTS PER MILLION BASED ON WEIGHT OF TESTED SAMPLE
= 百萬分之一，依據測試樣品重量計算
ND = NOT DETECTED = 未檢測出

DATE SAMPLE RECEIVED : MAY 26, 2008
樣品收件日期
TESTING PERIOD : MAY 27, 2008 TO MAY 30, 2008
樣品測試期間



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(II) ROHS REQUIREMENT 限值:

RESTRICTED SUBSTANCES 限用物質	LIMITS 限值
CADMIUM (Cd) / 鎘	0.01% (100ppm)
LEAD (Pb) / 鉛	0.1% (1000ppm)
MERCURY (Hg) / 汞	0.1% (1000ppm)
CHROMIUM (VI) (Cr ⁶⁺) / 六價鉻	0.1% (1000ppm)
POLYBROMINATED BIPHENYLS (PBBs) / 多溴聯苯	0.1% (1000ppm)
POLYBROMINATED DIPHENYL EHTERS (PBDEs) / 多溴聯苯醚	0.1% (1000ppm)

(III) TEST METHOD 測試方法 :

TESTING ITEM 測試項目	TESTING METHOD 測試方法	REPORTING LIMIT 報告極限
CADMIUM (Cd) CONTENT 鎘含量	WITH REFERENCE TO IEC 62321-111/95/CDV IN CLAUSE 8/9/10, BY MICROWAVE DIGESTION UNTIL THE TESTED SAMPLES ARE TOTALLY DISSOLVED AND DETERMINED BY ICP-OES 參考IEC 62321-111/95/CDV 第8/9/10章,以微波消化法 測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分 析。	2 ppm
LEAD (Pb) CONTENT 鉛含量	WITH REFERENCE TO IEC 62321-111/95/CDV IN CLAUSE 8/9/10, BY MICROWAVE DIGESTION UNTIL THE TESTED SAMPLES ARE TOTALLY DISSOLVED AND DETERMINED BY ICP-OES 參考IEC 62321-111/95/CDV 第8/9/10章,以微波消化法 測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分 析。	2 ppm
MERCURY (Hg) CONTENT 汞含量	WITH REFERENCE TO IEC 62321-111/95/CDV IN CLAUSE 7, BY MICROWAVE DIGESTION UNTIL THE TESTED SAMPLES ARE TOTALLY DISSOLVED AND DETERMINED BY ICP-OES 參考IEC 62321-111/95/CDV 第7章,以微波消化法測試樣 品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm

REMARKS 備註 : REPORTING LIMIT = QUANTITATION LIMIT OF ANALYTE IN SAMPLE
 報告極限 = 測試樣品之定量偵測極限
 TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-
 10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTHRE CHANGES
 PRIOR TO PUBLICATION.
 參考IEC 111/95/CDV VERSION 2007-10-12進行測試,此測試方法目前仍是草案,發行前仍
 有修正之可能。



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(III) TEST METHOD 測試方法 :

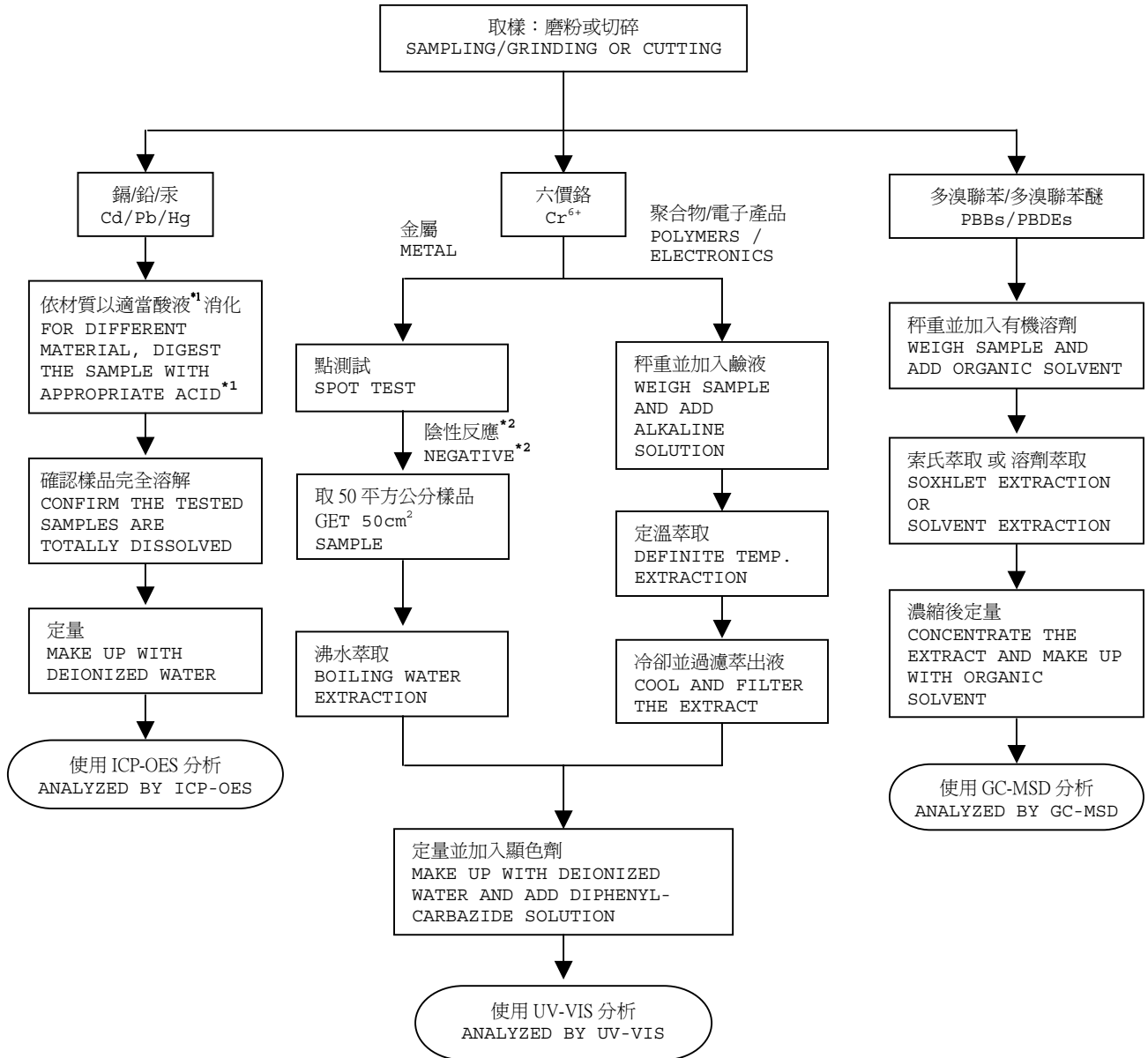
TESTING ITEM 測試項目	TESTING METHOD 測試方法	REPORTING LIMIT 報告極限
CHROMIUM VI (Cr ⁶⁺) CONTENT 六價鉻含量	WITH REFERENCE TO IEC 62321-111/95/CDV IN ANNEX C, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER 參考IEC 62321-111-95-CDV 附錄C ,以鹼液消化並用紫外光-可見光分光光度計分析。	1 ppm
POLYBROMINATED BIPHENYLS (PBBs) 多溴聯苯	WITH REFERENCE TO IEC 62321-111/95/CDV IN ANNEX A, BY SOLVENT EXTRACTION AND DETERMINED BY GC-MSD AND FURTHER HPLC CONFIRMATION WHEN NECESSARY 參考IEC 62321-111/95/CDV 附錄A,以溶劑萃取並用氣相層析質譜儀分析,必要時會以高效能液相層析-二極體陣列偵檢器進行確認。	5 ppm
POLYBROMINATED DIPHENYL ETHERS (PBDEs) 多溴聯苯醚	WITH REFERENCE TO IEC 62321-111/95/CDV IN ANNEX A, BY SOLVENT EXTRACTION AND DETERMINED BY GC-MSD AND FURTHER HPLC CONFIRMATION WHEN NECESSARY 參考IEC 62321-111/95/CDV 附錄A,以溶劑萃取並用氣相層析質譜儀分析,必要時會以高效能液相層析-二極體陣列偵檢器進行確認。	5 ppm

REMARKS 備註 : REPORTING LIMIT = QUANTITATION LIMIT OF ANALYTE IN SAMPLE
 報告極限 = 測試樣品之定量偵測極限
 TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTHRE CHANGES PRIOR TO PUBLICATION.
 參考IEC 111/95/CDV VERSION 2007-10-12進行測試,此測試方法目前仍是草案,發行前仍有修正之可能。

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(IV) MEASUREMENT FLOWCHART 測試流程圖:

TEST FOR Cd/Pb/Hg/CHROMIUM (VI)/PBBS/PBDES CONTENTS ROHS 六項測試流程圖
 REFERENCE STANDARD 參考方法: IEC 62321 (111/95/CDV)





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REMARKS 備註:

*1: LIST OF APPROPRIATE ACID 各材質添加酸液如下表:

MATERIAL 樣品材質	ACID ADDED FOR DIGESTION 添加酸液種類
POLYMERS / 聚合物	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃ 硝酸、鹽酸、氫氟酸、雙氧水、硼酸
METALS / 金屬	HNO ₃ , HCl, HF 硝酸、鹽酸、氫氟酸
ELECTRONICS / 電子產品	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄ 硝酸、鹽酸、雙氧水、氟硼酸

*2: IF THE RESULT OF SPOT TEST IS POSITIVE, CHROMIUM VI WOULD BE DETERMINED AS DETECTED.

若點測試的結果為陽性反應，則直接判定為測試樣品含有六價鉻。

END OF REPORT

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PHOTO

