



TEST REPORT

NUMBER : TWNC00088850

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

DATE : SEP 12, 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 : PE 泡棉膠帶
樣品名稱
STYLE / ITEM NO. : PKG,PKR,LPKG,LPKR 系列
產品型號
SUPPLIER'S NAME : PANTECH TAPE CO., LTD.
供應商名稱
COUNTRY OF ORIGIN : TAIWAN
原產國
DATE SAMPLE RECEIVED : SEP 08, 2008
收件日期
DATE TEST STARTED : SEP 08, 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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TEST CONDUCTED

(I) TEST RESULT SUMMARY 測試結果 :

TESTING ITEM 測試項目	RESULT 結果 (ppm)
	(1/2/3)
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

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

TESTED COMPONENTS 測試元件

- (1) RED PLASTIC TAPE WITH BLACK FOAM
- (2) GREEN PLASTIC TAPE WITH BLACK FOAM
- (3) RED PALSTIC FILM WITH BLACK FOAM (YELLOW RELEASE LINER WAS EXCLUDED)

RESPONSIBILITY OF CHEMIST 分析人員 : IRENE CHIOU / KEVIN LIU / CATHY CHEN

DATE SAMPLE RECEIVED 樣品收件日期 : SEP 08, 2008

TESTING PERIOD 樣品測試期間 : SEP 08, 2008 TO SEP 12, 2008



NUMBER : TWNC00088850

TEST CONDUCTED

(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
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-可見分光光度計分析。	1 ppm



NUMBER : TWNC00088850

TEST CONDUCTED

(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
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: REPORTING LIMIT = QUANTITATION LIMIT OF ANALYTE IN SAMPLE

備註

報告極限 = 測試樣品之定量偵測極限

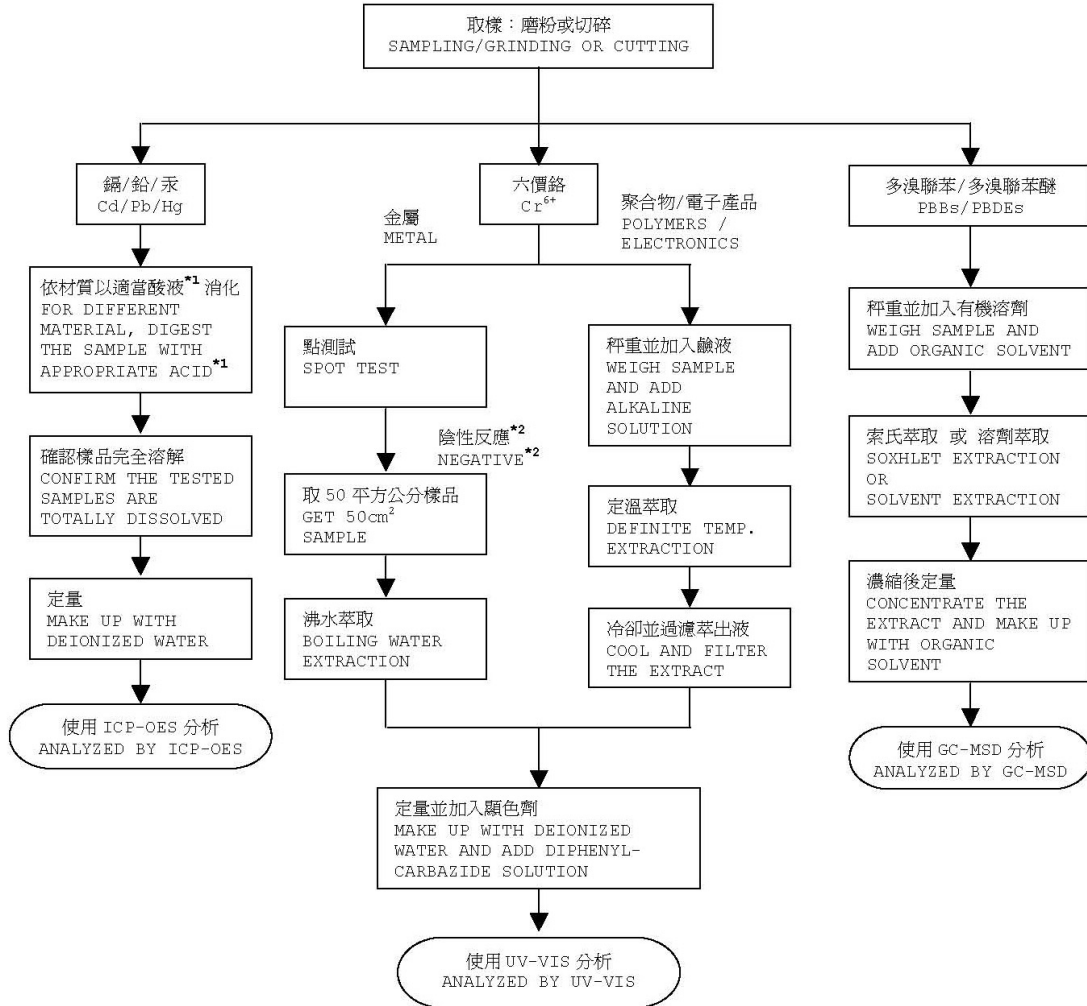
TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTHRE CHANGES PRIOR TO PUBLICATION.

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)



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

