

Test Report

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全科企業股份有限公司 PANTECH TAPE CO., LTD.

桃園市楊梅區中山南路800巷98弄8號

NO. 8, ALLEY 98, LANE 800, CHUNG-SHAN SOUTH ROAD, YANGMEI, TAOYUAN 32669, TAIWAN

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) : 全科企業股份有限公司 (PANTECH TAPE CO., LTD.)

樣品名稱(Sample Description) : 光學雙面膠帶

DHH50-A45 / DHH50-A22 樣品型號(Style/Item No.)

收件日期(Sample Receiving Date) 2017/11/01

2017/11/01 TO 2017/11/08 測試期間(Testing Period)

測試需求(Test Requested):

(1) 依據客戶指定,檢測鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP. (As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, DBP, DEHP, DIBP contents in the submitted sample(s).)

(2) 依據客戶指定,進行鹵素-氟、氯、溴、碘測試. (As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine contents in the submitted sample(s).)

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



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測試結果(Test Results)

測試部位(PART NAME)No.1 : 整體混測 (MIXED ALL PARTS)

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
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	2	n. d.
鉛 / Lead (Pb)	mg/kg	reference to IEC 62321-5 (2013) and performed by ICP-AES.	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	参考IEC 62321-7-2 (2017),以UV-VIS 檢測;参考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	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 / 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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丝果

方法值測

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測試項目	單位	測試方法	力法识测	結木
(Test Items)	(Unit)	(Method)	極限值	(Result)
	(oni c)	(me thou)	(MDL)	No. 1
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		_	n. d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n. d.
二溴聯苯醚 / Dibromodiphenyl ether	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.	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.
鄰苯二甲酸丁苯甲酯 / BBP (Butyl	mg/kg		50	n. d.
Benzyl phthalate) (CAS No.: 85-68-7)				
鄰苯二甲酸二丁酯 / DBP (Dibutyl	mg/kg	1	50	n. d.
phthalate) (CAS No.: 84-74-2)		参考IEC 62321-8 (2017), 以氣相層析		
鄰苯二甲酸二異丁酯 / DIBP (Di-	mg/kg	儀/質譜儀檢測. / With reference to	50	n. d.
isobutyl phthalate) (CAS No.: 84-69-		IEC 62321-8 (2017). Analysis was		
5)		performed by GC/MS.		
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP	mg/kg	1	50	n. d.
(Di- (2-ethylhexyl) phthalate) (CAS	8			
No.: 117-81-7)				
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS	mg/kg		50	n. d.
No.: 14762-94-8)				
鹵素 (氣) / Halogen-Chlorine (Cl)	mg/kg	┫ ┃ 参考BS EN 14582 (2016),以離子層析	50	n. d.
(CAS No.: 22537-15-1)		儀分析. / With reference to BS EN		
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performed by IC.

mg/kg

14582 (2016). Analysis was

鹵素 (溴) / Halogen-Bromine (Br) (CAS

鹵素 (碘) / Halogen-Iodine (I) (CAS

No.: 10097-32-2)

No.: 14362-44-8)

n. d.

n. d.



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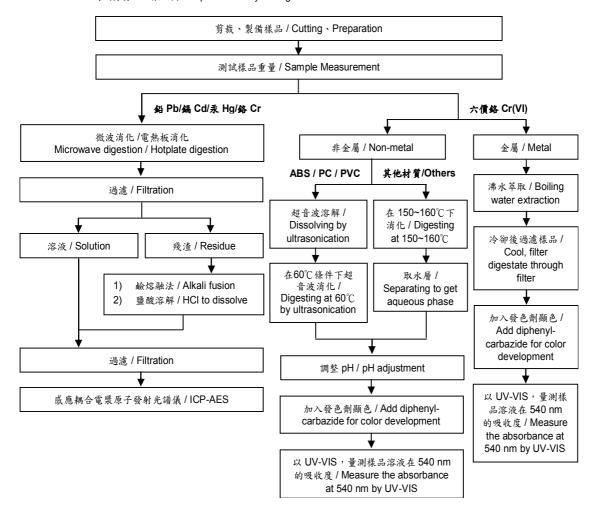
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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:王志瑋 / Technician: JR Wang
- 測試負責人:張啟興 / Supervisor: Troy Chang





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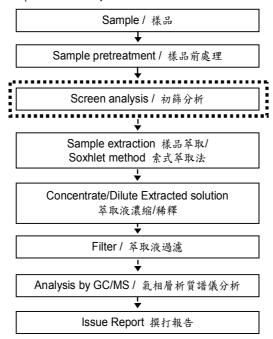
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

號碼(No.): CE/2017/B0126 日期(Date): 2017/11/08

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 _ 確認程序 / Confirmation process - · - •





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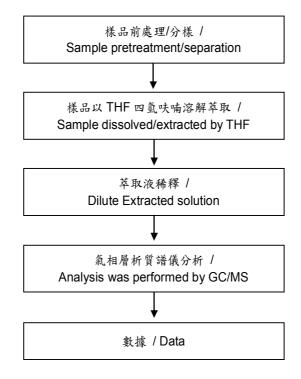
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

號碼(No.): CE/2017/B0126 日期(Date): 2017/11/08

測試人員:徐毓明 / Technician: Andy Shu 測試負責人:張啟興 / Supervisor: Troy Chang

【測試方法/Test method: IEC 62321-8】





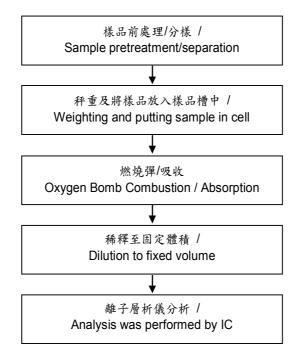
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鹵素分析流程圖 / Analytical flow chart - Halogen

號碼(No.): CE/2017/B0126 日期(Date): 2017/11/08

- 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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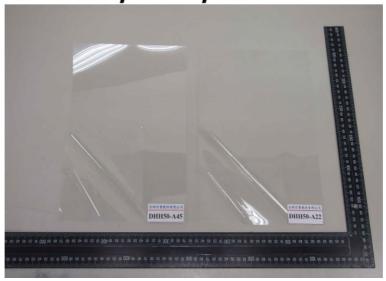
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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

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** 報告結尾 (End of Report) **