

號碼(No.): CE/2017/74454

日期(Date): 2017/07/28

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頁數(Page): 1 of 9
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Test Report

中華紙漿股份有限公司 CHUNG HWA PULP CORPORATION 台北市中正區重慶南路二段51號12樓 12F, NO. 51, SEC. 2, CHONGCING S. RD., ZHONGZHENG DISTRICT, TAIPEI CITY 100, TAIWAN, R. O. C.

以下測試樣品係由申請廠商所提供及確認 behalf of the applicant as):	& (The following sample(s) was/were submitted and identified by/on
送樣廠商(Sample Submitted By)	: 中華紙漿股份有限公司(CHUNG HWA PULP CORPORATION)
樣品名稱(Sample Description)	: COATED DUPLEX PAPER(灰紙板類)
應用於(Used For)	交底白紙板,白底白紙板,全塗灰底銅版卡紙(輕塗),環保灰銅卡,白面牛皮裱 面紙板,赤面牛皮裱面紙板,灰紙板,紗管紙,豐厚卡,豐厚特卡,精緻灰卡 (COATED DUPLEX BOARD WITH GRAY BACK, COATED DUPLEX BOARD WITH WHITE BACK, LIGHT WEIGHT COATED DUPLEX BOARD WITH GRAY BACK, RECYCLED COATED DUPLEX BOARD WITH GRAY BACK, LINER BOARD, CHIP PAPER BOARD, TEXTURE PAPER / COP TUBE PAPER)
收件日期(Sample Receiving Date)	: 2017/07/21
測試期間(Testing Period) ====================================	: 2017/07/21 TO 2017/07/28
測試結果(Test Results) : 請	参閱下一頁 (Please refer to following pages).



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<u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 白/灰色紙板 (WHITE/GRAY CARDBOARD)

测試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (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 reference to IEC 62321-5 (2013) and performed by ICP-AES.	2	n. d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5 (2013),以感應耦合 電浆原子發射光譜儀檢測. / With reference to IEC 62321-5 (2013) and performed by ICP-AES.	2	4. 81
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;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.
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237- 51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321 (2008),以氣相層析/ 質譜儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n. d.

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中華紙漿股份有限公司 CHUNG HWA PULP CORPORATION 台北市中正區重慶南路二段51號12樓 12F NO 51 SEC 2 CHONGCING S RD

12F, NO. 51, SEC. 2, CHONGCING S. RD., ZHONGZHENG DISTRICT, TAIPEI CITY 100, TAIWAN, R. O. C.

测試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No. 1
多溴聯苯總和 / Sum of PBBs	mg/kg		_	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	1 1	5	n. d.
七溴聯苯 / Heptabromobiphenyl	mg/kg]	5	n. d.
八溴聯苯 / Octabromobiphenyl	mg/kg	1	5	n. d.
九溴聯苯 / Nonabromobiphenyl	mg/kg	參考IEC 62321-6 (2015),以氣相層析	5	n. d.
十溴聯苯 / Decabromobiphenyl	mg/kg	/質譜儀檢測. / With reference to	5	n. d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	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.

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Test Report

中華紙漿股份有限公司 CHUNG HWA PULP CORPORATION 台北市中正區重慶南路二段51號12樓 12F, NO. 51, SEC. 2, CHONGCING S. RD., ZHONGZHENG DISTRICT, TAIPEI CITY 100, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg	參考IEC 62321-8 (2017),以氣相層析 儀/質譜儀檢測. / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二丁酯 / DBP(Dibutyl phthalate)(CAS No.: 84-74-2)	mg/kg		50	n. d.
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n. d.
鄰苯二甲酸二異丁酯 / DIBP(Di-isobuty1 phthalate)(CAS No.: 84-69-5)	mg/kg		50	n. d.
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	mg/kg		50	n. d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	mg/kg		50	n. d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	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.

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測試報告 Teat Damas

Test Report

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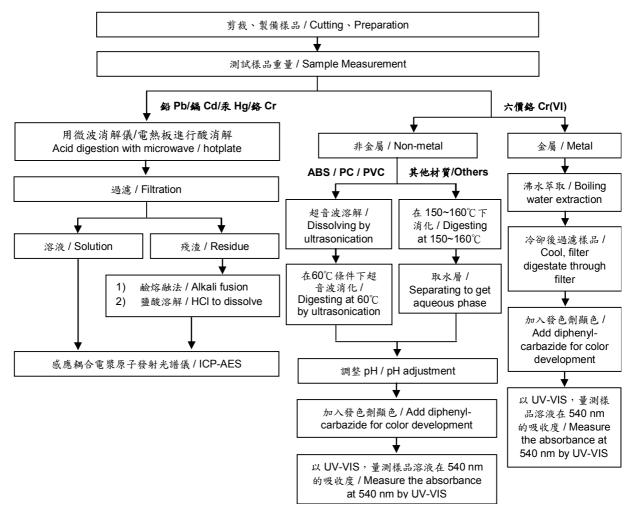
日期(Date): 2017/07/28

中華紙漿股份有限公司 CHUNG HWA PULP CORPORATION 台北市中正區重慶南路二段51號12樓 12F, NO. 51, SEC. 2, CHONGCING S. RD., ZHONGZHENG DISTRICT, TAIPEI CITY 100, 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.(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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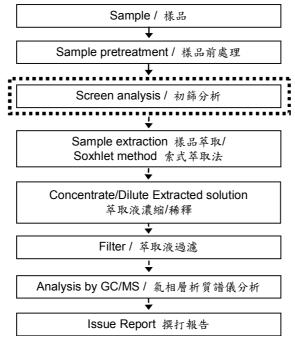
中華紙漿股份有限公司
CHUNG HWA PULP CORPORATION
台北市中正區重慶南路二段51號12樓
12F, NO. 51, SEC. 2, CHONGCING S. RD., ZHONGZHENG DISTRICT, TAIPEI CITY 100, TAIWAN, R. O. C.

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

■ 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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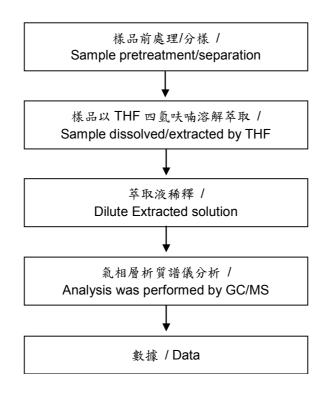
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<u>可塑劑分析流程圖 / Analytical flow chart - Phthalate</u>

■ 測試人員:徐毓明 / Technician: Andy Shu

■ 測試負責人:張啟興 / Supervisor: Troy Chang

【测試方法/Test method: IEC 62321-8】



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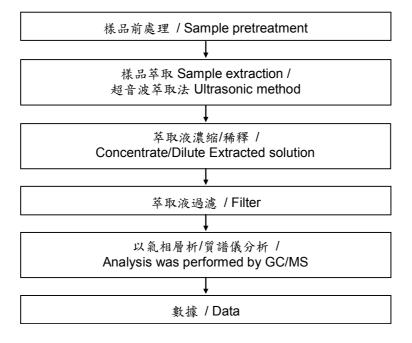
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

- 測試人員: 涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang



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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.)



** 報告結尾 (End of Report) **

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