

Test Report

台灣化學纖維股份有限公司 FORMOSA CHEMICALS & FIBRE CORPORATION 台北市敦化北路201號 201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C. 頁數 (Page): 1 of 7

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) 樣品名稱(Sample Description)

台灣化學纖維股份有限公司 (FORMOSA CHEMICALS & FIBRE CORPORATION)

日期(Date): 2017/04/26

: POLYPROPYLENE IMPACT COPOLYMER (聚丙烯耐衝擊共聚物)

樣品型號(Style/Item No.)

TAIRIPRO PP B8001, K3004, K3009AN, K3009AU, K3029, K3030, K6615, K7005, K7009, K7025, K8003, K8009, K8025, K8050, K8065, K8095, K8802, K9010,

K9017, K9030, KP03B, T8002

收件日期(Sample Receiving Date)

: 2017/04/20

號碼(No.): CE/2017/43904

測試期間(Testing Period)

2017/04/20 TO 2017/04/26

測試需求(Test Requested)

依據客戶指定,參考ROHS2011/65/EU Annex II及其修訂指令(EU) 2015/863測試編、鉛、汞、 六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.)

測試方法(Test Method) 測試結果(Test Results) 論(Conclusion)

- 請見下一頁 (Please refer to next pages).
- 請見下一頁 (Please refer to next pages).
- 根據客戶所提供的樣品,其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS指令暨(EU) 2015/863之限值要求. (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS and amending Directive (EU) 2015/863.)

Signed for and on I SGS TAIWAN LT Chemical Laboratory

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測試結果(Test Results)

測試部位(PART NAME)No.1 白色塑膠粒 (WHITE PLASTIC PELLETS)

Taller Aller		The state of the s	ME			
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	限值 (Limit)	
鎬 / Cadmium (Cd)	mg/kg	參考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.	100	
鉛 / Lead (Pb)	mg/kg	參考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.	1000	
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.	1000	
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321 (2008),以UV-VIS檢測. / With reference to IEC 62321 (2008) and performed by UV-VIS.	2	n. d.	1000	
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/CD (2013),以氣相層析儀/質譜儀檢測./ With reference to IEC 62321-8/CD (2013).Analysis was performed by GC/MS.	50	n. d.	1000	
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n. d.	1000	
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84- 69-5)	mg/kg		50	n. d.	1000	
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.	1000	

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201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結果 (Result)	限值 (Limit)
(1021 100-1)	(/		(MDL)	No. 1	
多溴聯苯總和 / Sum of PBBs	mg/kg	a sal (C) in (CH)	S. R. Chin.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg	W Ster	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	Sell A	5	n. d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg	A BOLLO	5	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg	Marian Company of the	5	n. d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg	Chi.	5	n. d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg	RUST	5	n. d.	_
九溴聯苯 / Nonabromobiphenyl	mg/kg	參考IEC 62321-6 (2015),以氣相層析/	5 00	n. d.	_
十溴聯苯 / Decabromobiphenyl	mg/kg	質譜儀檢測. / With reference to IEC	5	n. d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	62321-6 (2015) and performed by	-	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg	GC/MS.	5	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg	ER CITY	5	n. d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n. d.	_
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	W Fild Child	5	n. d.	_
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	The state of the s	5	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5 0(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	a1200 a128	5	n. d.	-
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	Harris Collinson	5	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)



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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)

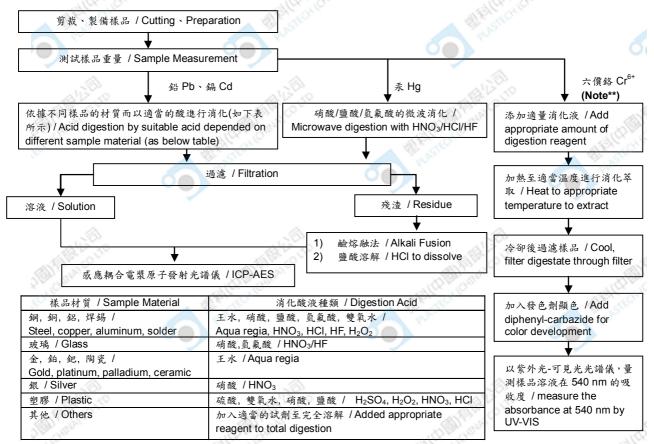
號碼(No.): CE/2017/43904

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)

日期(Date): 2017/04/26

測試人員:王志瑋 / Technician: JR Wang

測試負責人:張啟興 / Supervisor: Troy Chang



Note** (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃ 萃取. / For non-metallic material, add alkaline digestion reagent and heat to
- (2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

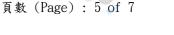
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

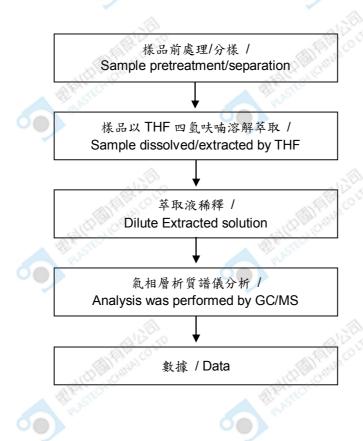
日期(Date): 2017/04/26

■ 測試人員:徐毓明 / Technician: Andy Shu

號碼(No.): CE/2017/43904

■ 測試負責人:張啟興 / Supervisor nt: Troy Chang

【測試方法/Test method: IEC 62321-8】



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

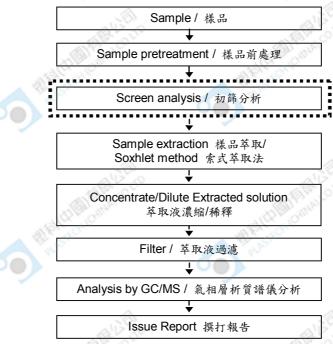
日期(Date): 2017/04/26

測試人員:涂雅苓 / Technician: Yaling Tu

號碼(No.): CE/2017/43904

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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* 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) **

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