

號碼: CE/2007/18596 日期: 2007/02/07 頁數: 1 of 5

長春人造樹脂廠股份有限公司

CHANG CHUN PLASTIC CO., LTD.

CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.

台北市中山區松江路301號7樓

7TH FL., 301 SONG KIANG ROAD, TAIPEI, TAIWAN, R. O. C.

以下測試樣品係由客户送樣, 且由客户聲稱並經客户確認如下(The following sample(s) was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)

樣品型號(Style/Item No.)

: POLYBUTYLENE TEREPHTHALATE (PBT)

: PBT (2000, 2000T, 2100, 4108, 4115, 4115F, 4120, 4130, 4130F,

4140, 4815, 4820, 4830, 4840, 4815G, 4830G, 8815, 8830)

電話/傳真/e-mail(TEL/FAX/e-mail)

聯絡人(Contact Person)

收件日期(Sample Receiving Date)

測試期間(Testing Period)

: 886-2-25001883 / 886-2-25187964 / tlin@ccp.com.tw

TACIAL LIN

: 2007/01/31

: 2007/01/31 TO 2007/02/07

測試需求 / Test Requested

測試方法 / Test Method

参考IEC 62321, Ed. 1 111/54/CDV方法檢測. / With reference to IEC 62321, Ed.1 111/54/CDV. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

- (1) 用感應藕合電漿原子發射光譜儀檢測鎘含量. / Determination of Cadmium by ICP-AES.
- (2) 用感應藕合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.
- (3) 用感應藕合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.

根據客户所提供樣品的測試結果,符合RoHS(2002/95/EC)及其修定指令

- (4) 針對非金屬材質之樣品,用UV-VIS檢測六價鉻含量./ Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / Determination of PBB and PBDE by GC/MS.

測試結果 / Test Result(s)

: 請見下一頁.

結論 / Conclusion

之要求. / Based on the performed tests on submitted samples, the test results are **compliant with** the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

Daniel Yen, M.R. / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

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測試結果 (單位: mg/kg) / Test Result(s)

測試項目 / Test Item (s):	測試方法 Method (Refer to)	結果 / Result	方法偵測 極限値 (MDL)	RoHS 限値
鉛 / Lead (Pb)	(2)	8.4	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by	(4)	n.d.	2	1000
alkaline extraction				
多溴聯苯總和 / Sum of PBBs		n.d.	-	1000
一溴聯苯 / Monobromobiphenyl		n.d.	5	-
二溴聯苯 / Dibromobiphenyl		n.d.	5	-
三溴聯苯 / Tribromobiphenyl		n.d.	5	-
四溴聯苯 / Tetrabromobiphenyl		n.d.	5	-
五溴聯苯 / Pentabromobiphenyl		n.d.	5	-
六溴聯苯 / Hexabromobiphenyl		n.d.	5	-
七溴聯苯 / Heptabromobiphenyl		n.d.	5	-
八溴聯苯 / Octabromobiphenyl		n.d.	5	-
九溴聯苯 / Nonabromobiphenyl		n.d.	5	-
十溴聯苯 / Decabromobiphenyl		n.d.	5	-
多溴聯苯醚總和(一至九溴)/ Sum of		n.d.	-	1000
PBDEs (Mono to Nona) (Note 4)	(5)			
一溴聯苯醚 / Monobromobiphenyl ether		n.d.	5	-
二溴聯苯醚 / Dibromobiphenyl ether		n.d.	5	-
三溴聯苯醚 / Tribromobiphenyl ether		n.d.	5	-
四溴聯苯醚 / Tetrabromobiphenyl ether		n.d.	5	-
五溴聯苯醚 / Pentabromobiphenyl ether		n.d.	5	-
六溴聯苯醚 / Hexabromobiphenyl ether		n.d.	5	-
七溴聯苯醚 / Heptabromobiphenyl ether		n.d.	5	-
八溴聯苯醚 / Octabromobiphenyl ether		n.d.	5	-
九溴聯苯醚 / Nonabromobiphenyl ether		n.d.	5	-
十溴聯苯醚 / Decabromobiphenyl ether		n.d.	5	-
多溴聯苯醚總和(一至十溴)/ Sum of PBDEs (Mono to Deca)		n.d.	-	-

測試部位描述 / TEST PART DESCRIPTION:

黑色塑膠粒 / BLACK PLASTIC PELLETS NO.1

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Note: 1. mg/kg = ppm

- 2. n.d. = Not Detected / 未檢出
- 3. MDL = Method Detection Limit / 方法偵測極限値
- 4. According to 2005/717/EC DecaBDE is exempt. 根據2005年10月13日歐盟會議公佈2005/717/EC,修訂2002/95/EC內容,通過解除高分子材質中十溴聯苯醚之使用限制。
- 5. "-" = Not Regulated / 無規格值



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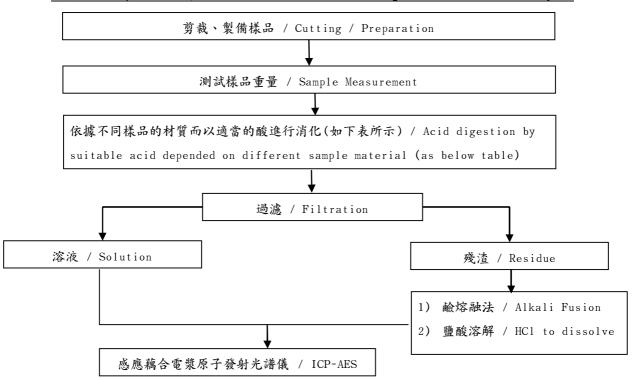
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人:葉禮源 / Name of the person in charge of measurement: Daniel Yeh

鎬、鉛的消化流程圖 / Method 1: Flow Chart of Digestion for Cd、Pb analysis



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 /		
	Aqua regia, HNO3, HC1, HF, H2O2		
玻璃 / Glass	硝酸,氫氟酸 / HNO ₃ /HF		
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia		
銀 / Silver	硝酸 / HNO3		
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HC1		
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion		

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** 報告結尾 **