

測試報告

號碼：KE/2014/B2264A-01

日期：2014/11/26


頁數：1 of 6

崇裕科技股份有限公司
新北市土城區永豐路195巷27弄4號

以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下：

樣品名稱：31度黑 感溫變色微膠囊粉
樣品型號：TM-PD 31-3141
樣品顏色：黑色
收件日期：2014/11/21
測試期間：2014/11/21 TO 2014/11/26
送樣廠商：崇裕科技股份有限公司

=====
測試需求：依據客戶要求，參考RoHS 2011/65/EU Annex II 指令進行鎘，鉛，汞，六價鉻，多溴聯苯，多溴聯苯醚測試。
測試方法：請見下一頁。
測試結果：請見下一頁。
結論：根據客戶所提供的樣品，其鎘，鉛，汞，六價鉻，多溴聯苯，多溴聯苯醚的測試結果符合RoHS指令2002/95/EC的更新指令2011/65/EU之要求。


Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited
Chemical Laboratory-Kaohsiung



測試報告

號碼：KE/2014/B2264A-01

日期：2014/11/26

頁數：2 of 6

崇裕科技股份有限公司
 新北市土城區永豐路195巷27弄4號

測試結果

測試部位 No.1：31度黑 感溫變色微膠囊粉

測試項目	單位	測試方法	方法偵測	結果	法規
			極限值	No.1	限值
鎘	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀(ICP-AES)檢測。	2	n.d.	100
鉛	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀(ICP-AES)檢測。	2	n.d.	1000
汞	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀(ICP-AES)檢測。	2	n.d.	1000
六價鉻	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測。	2	n.d.	1000
多溴聯苯總和	mg/kg	參考IEC 62321: 2008方法, 以氣相層析/質譜儀(GC/MS)檢測。	-	n.d.	1000
一溴聯苯	mg/kg		5	n.d.	-
二溴聯苯	mg/kg		5	n.d.	-
三溴聯苯	mg/kg		5	n.d.	-
四溴聯苯	mg/kg		5	n.d.	-
五溴聯苯	mg/kg		5	n.d.	-
六溴聯苯	mg/kg		5	n.d.	-
七溴聯苯	mg/kg		5	n.d.	-
八溴聯苯	mg/kg		5	n.d.	-
九溴聯苯	mg/kg		5	n.d.	-
十溴聯苯	mg/kg		5	n.d.	-
多溴聯苯醚總和	mg/kg		-	n.d.	1000
一溴聯苯醚	mg/kg		5	n.d.	-
二溴聯苯醚	mg/kg		5	n.d.	-
三溴聯苯醚	mg/kg		5	n.d.	-
四溴聯苯醚	mg/kg		5	n.d.	-
五溴聯苯醚	mg/kg		5	n.d.	-
六溴聯苯醚	mg/kg		5	n.d.	-
七溴聯苯醚	mg/kg		5	n.d.	-
八溴聯苯醚	mg/kg		5	n.d.	-
九溴聯苯醚	mg/kg	5	n.d.	-	
十溴聯苯醚	mg/kg	5	n.d.	-	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。
 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

測試報告

號碼：KE/2014/B2264A-01

日期：2014/11/26

頁數：3 of 6

崇裕科技股份有限公司
新北市土城區永豐路195巷27弄4號

備註：

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. 此為2011/11/26所發行KE/2014/B2264之加發報告，原始資料請參考KE/2014/B2264.

colours beyond imagination
崇裕科技股份有限公司

測試報告

號碼：KE/2014/B2264A-01

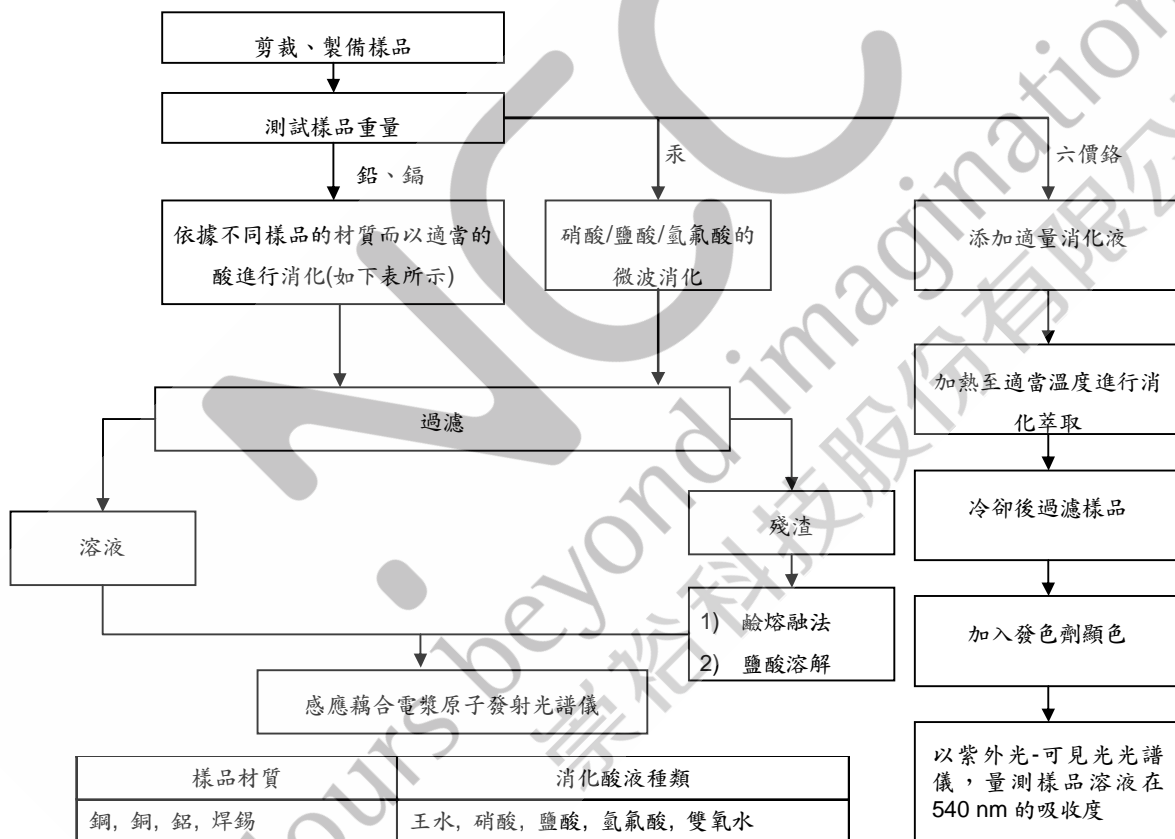
日期：2014/11/26

頁數：4 of 6

崇裕科技股份有限公司

新北市土城區永豐路195巷27弄4號

- 1) 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)
- 2) 測試人員：劉俊宏
- 3) 測試負責人：張伯睿



Note:** (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。
 (2) 針對金屬材料加入純水，加熱至沸騰萃取。

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。
 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

測試報告

號碼：KE/2014/B2264A-01

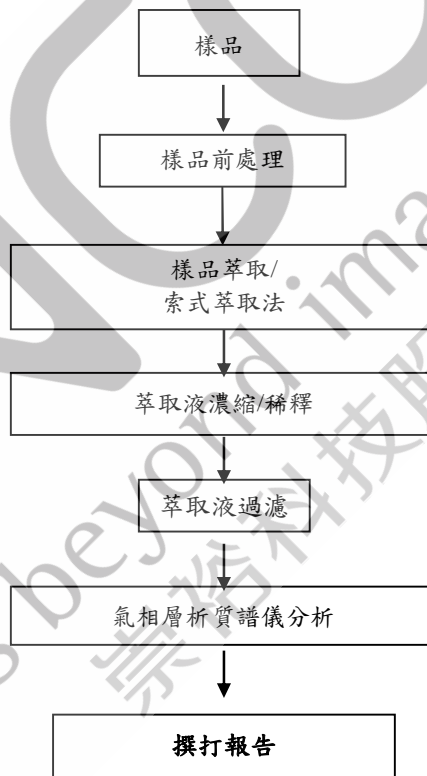
日期：2014/11/26

頁數：5 of 6

崇裕科技股份有限公司
 新北市土城區永豐路195巷27弄4號

多溴聯苯/多溴聯苯醚分析流程圖

- 1) 測試人員：陳威錚
- 2) 測試負責人：張伯睿



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。
 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

測試報告

號碼：KE/2014/B2264A-01

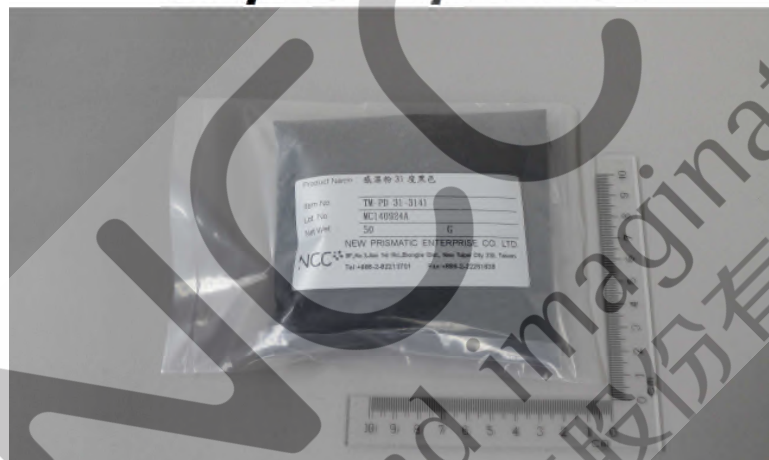
日期：2014/11/26

頁數：6 of 6

崇裕科技股份有限公司
新北市土城區永豐路195巷27弄4號

* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 *

KE/2014/B2264



** 報告結尾 **

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.