

號碼(No.) : CE/2019/24275

日期(Date): 2019/02/26

頁數(Page): 1 of 15

Test Report 迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號

NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

以下測試樣品係由申請廠商所提供及 behalf of the applicant as):	確認	& (The following sample(s) was/were submitted and identified by/on
送樣廠商(Sample Submitted By)	:	迪愛禧佳龍油墨股份有限公司(DIC GRAPHICS CHIA LUNG CORP.)
樣品名稱(Sample Description)	:	DAICURE PRINT INKS(UV印刷油墨)
樣品型號(Style/Item No.)	:	請參考第6頁(PLEASE REFER TO PAGE 6)
收件日期(Sample Receiving Date)	:	2019/02/21
測試期間(Testing Period)	:	2019/02/21 to 2019/02/26
	===:	

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





Test Report

號碼(No.): CE/2019/24275

日期(Date) : 2019/02/26

頁數(Page): 2 of 15

迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號 NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

<u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 黑色油墨 (客戶自行調配之樣品) (BLACK INK (SAMPLE IS BLENDED BY CLIENT))

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	參考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	参考IEC 62321-4 (2013),以感應耦合 電浆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. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.	8	n. d.
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	參考IEC 62321-6 (2015),以氣相層析	5	n. d.
五溴聯苯 / Pentabromobiphenyl	mg/kg	儀/質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed by GC/MS.	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.



Test Report

號碼(No.) : CE/2019/24275

日期(Date): 2019/02/26

迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP.

桃園市龜山區大華里頂湖一街12號

NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, 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 (MDL)	結果 (Result) 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]	5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg]	5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	參考IEC 62321-6 (2015),以氣相層析	5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	儀/質譜儀檢測. / With reference to IEC 62321-6(2015)and performed	5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	by GC/MS.	5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg	by 607 mo.	5	n. d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n. d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg	1	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 Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg	参考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.
鄰苯二甲酸二異丁酯 / DIBP(Di-isobutyl phthalate)(CAS No.: 84-69-5)	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.



Test Report

號碼(No.) : CE/2019/24275

日期(Date): 2019/02/26

頁數(Page): 4 of 15

迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號

NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, 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 (MDL)	結果 (Result) No.1
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	参考US EPA 3550C (2007),以液相層 析儀/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	10	n. d.
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	参考US EPA 3550C (2007),以液相層 析儀/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	10	n. d.
多氯聯苯 / Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	参考US EPA 3550C (2007),以氣相層 析儀/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.	0.5	n. d.
雙酚 A / Bisphenol A (CAS No.: 80- 05-7)	mg/kg	参考RSTS-CHEM-239-1 (2016),以超高 效能液相層析串聯質譜儀檢測. / With reference to RSTS-CHEM-239-1 (2016). Analysis was performed by UPLC-MSMS.	1	n. d.
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	參考US EPA 3550C (2007),以氣相層 析儀/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.	0.1	n. d.
甲醛 / Formaldehyde (CAS No.: 50-00- 0)	mg/kg	參考ISO 17226-1(2008),以高效液相 層析儀/二極體陣列偵測器檢測. / With reference to ISO 17226- 1(2008). Analysis was performed by HPLC/DAD.	3	n. d.



號碼(No.) : CE/2019/24275

日期(Date): 2019/02/26

頁數(Page): 5 of 15

Test Report

迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號 NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

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)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗層材料中不得超過 $1\mu g/m^2$ 。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^2$.)



號碼(No.): CE/2019/24275 日期(Date): 2019/02/26 頁數(Page): 6 of 15

Test Report

迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號 NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

樣品型號(Style/Item No.): 客户自行調配之樣品 (SAMPLE IS BLENDED BY CLIENT):

中文:DAICURE SD, SD-X, IP, EP, NCR, SD SOY, NCR SOY, HY-BRYTE, PAD, SL PV, RT-X, UV HANS DA, DNP, RT-X Card, UV NewsMag, RADCURE RAP, RAO, EB TR2 AM, HUV, LED, CLB, CLB1 DOC-A, HR, HR-L, HR-K, RT-X KLS, RT-X MHL, HA-X, PAD-C, Daicure RT, SCEPTER NC 混合油墨

英文:DAICURE SD, SD-X, IP, EP, NCR, SD SOY, NCR SOY, HY-BRYTE, PAD, SL PV, RT-X, UV HANS DA, DNP, RT-X Card, UV NewsMag, RADCURE RAP, RAO, EB TR2 AM, HUV, LED , CLB , CLB1 DOC-A, HR, HR-L, HR-K, RT-X KLS, RT-X MHL, HA-X, PAD-C, Daicure RT, SCEPTER NC INK SERIES

中文名稱	英文名稱	中文名稱	英文名稱
紅	Magenta	東方藍	Spot Blue
藍	Cyan	維利油	Medium
黄	Yellow	上光油	OP Varnish
特黃	Density Yellow	WL 消光油AK	WL MAT OP Varnish AK
黑	Black	打底油	Primer
特黑	Density Black	滑性劑	Slip Additive
金紅	Warm Red	稀釋劑	Reducer
綠	Green	桔	Orange
紫	Violet	射光藍	Reflex Blue
玫瑰紅	Rose Red	粉紅	Pink
特殊 藍	Special Blue	大紅	Scarlet
白	White	金赤	Bronze Red



Test Report

迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號 NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

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

日期(Date): 2019/02/26

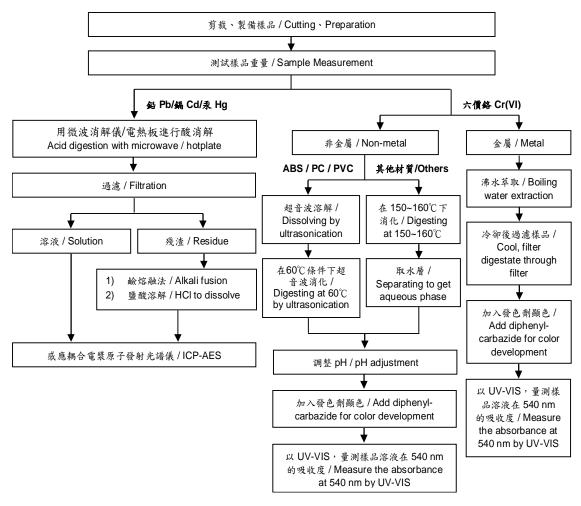
頁數(Page): 7 of 15

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:陳恩臻 / Technician: Rita Chen

號碼(No.): CE/2019/24275

測試負責人:張啟興 / Supervisor: Troy Chang





號碼(No.) : CE/2019/24275

日期(Date): 2019/02/26

頁數(Page): 8 of 15

Test Report 迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP.

桃園市龜山區大華里頂湖一街12號

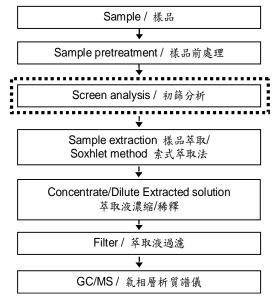
NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

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

■ 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 → → →→





_ _ _

Test Report

迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號 NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

號碼(No.): CE/2019/24275

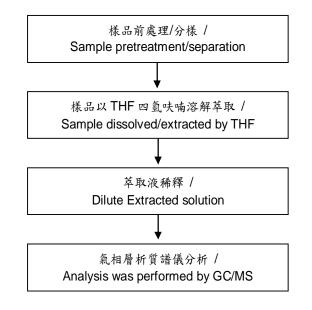
<u> 可塑劑分析流程圖 / Analytical flow chart - Phthalate</u>

日期(Date): 2019/02/26

頁數(Page): 9 of 15

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

【测試方法/Test method: IEC 62321-8】





-

Test Report

迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號 NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

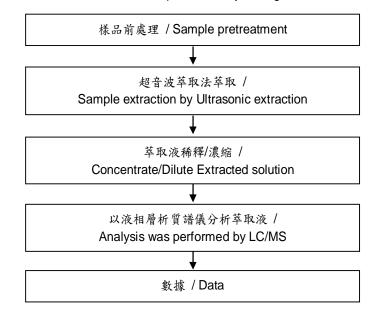
號碼(No.): CE/2019/24275

全氯辛酸/全氯辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

日期(Date): 2019/02/26

頁數(Page): 10 of 15

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com/en/terms-and-conditions/terms-e-document, at the limit of itability, 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 instruction, 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. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



-

Test Report

迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號 NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

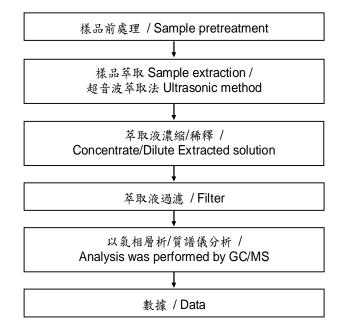
號碼(No.): CE/2019/24275

多氯聯苯分析流程圖 / Analytical flow chart - PCBs

日期(Date): 2019/02/26

頁數(Page): 11 of 15

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





- . -

Test Report

迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號 NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

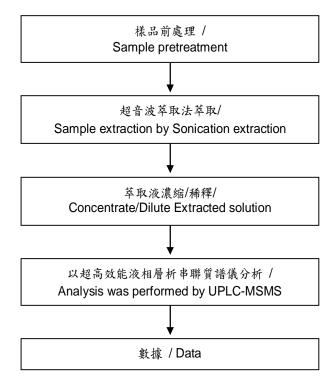
號碼(No.): CE/2019/24275

雙酚A分析流程圖 / Analytical flow chart - Bisphenol A

日期(Date): 2019/02/26

頁數(Page): 12 of 15

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





Test Report

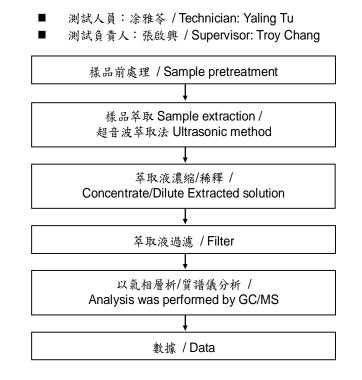
迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號 NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

號碼(No.): CE/2019/24275

富馬酸二甲酯分析流程圖 / Analytical flow chart - Dimethyl Fumarate

日期(Date): 2019/02/26

頁數(Page): 13 of 15





- - -

Test Report

迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號 NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

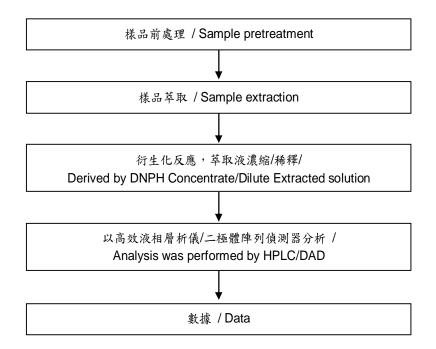
號碼(No.): CE/2019/24275

<u> 甲醛分析流程圖 / Analytical flow chart - Formaldehyde</u>

日期(Date): 2019/02/26

頁數(Page): 14 of 15

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





號碼(No.) : CE/2019/24275

日期(Date) : 2019/02/26

Test Report

迪愛禧佳龍油墨股份有限公司 DIC GRAPHICS CHIA LUNG CORP. 桃園市龜山區大華里頂湖一街12號 NO. 12, TING FU 1ST STREET, TA HUA VILLAGE, KWEI SHAN DIST., TAO-YUAN CITY, TAIWAN, R. O. C.

> * 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) **