

## **Test Report**

鈞均企業股份有限公司 SHYANGE PAINT CO., LTD. 桃園市大園區埔心村7鄰76號

NO. 76, 7LIN, PUHSIN VILL, TAYUAN DISTRICT, TAOYUAN CITY, TAIWAN, R.O.C.

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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):

號碼(No.): CE/2016/80914 日期(Date): 2016/08/10

送樣廠商(Sample Submitted By) 鈞均企業股份有限公司 (SHYANGE PAINT CO., LTD.)

樣品名稱(Sample Description) 水性啞光漆 WU-306M 樣品型號(Style/Item No.) 收件日期(Sample Receiving Date) 2016/08/03

2016/08/03 TO 2016/08/10 測試期間(Testing Period)

#### 測試需求(Test Requested):

(1) 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, 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), DBP, BBP, DEHP, DIBP contents in the submitted sample.)

(2) 其他測試項目請見下一頁 . (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).



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## 測試報告 **Test Report**

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#### 測試結果(Test Results)

測試部位(PART NAME)No.1 : 白色液體 (WHITE LIQUID)

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)
鎬 / 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.
汞 / Mercury (Hg)	mg/kg	参考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 (2008),以UV-VIS檢 測. / With reference to IEC 62321 (2008) and performed by UV-VIS.	2	n. d.
銻 / Antimony (Sb)	mg/kg	参考US EPA 3052 (1996),以感應耦合 電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.
砷 / Arsenic (As)	mg/kg	参考US EPA 3052 (1996),以感應耦合 電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.
鋇 / Barium (Ba)	mg/kg	参考US EPA 3052 (1996),以感應耦合 電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.



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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
鉻 / Chromium (Cr)	mg/kg	参考US EPA 3052 (1996),以感應耦合 電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.
硒 / Selenium (Se)	mg/kg	参考US EPA 3052 (1996),以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.
磷 / Phosphorus (P)	mg/kg	参考US EPA 3052 (1996),以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.
鈹 / Beryllium (Be)	mg/kg	参考US EPA 3052 (1996),以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	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.
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	參考IEC 62321-8/CD (2013),以氣相	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	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.
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	mg/kg	00/ mg.	50	n. d.



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	(onit)	(me thou)	(MDL)	No. 1
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	mg/kg	參考IEC 62321-8/CD (2013),以氣相	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	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.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg	UC/ MO.	50	n. d.
三丁基錫 / Tributyl Tin (TBT)	mg/kg		0.03	n. d.
三苯基錫 / Triphenyl Tin (TphT)	mg/kg	]	0.03	n. d.
氧化雙三丁基錫 / Bis(tributyltin)oxide (TBTO)*** (CAS No.: 56-35-9)	mg/kg	参考ISO 17353(2004),以氣相層析儀 /火焰光度偵測器檢測. / With reference to ISO 17353(2004). Analysis was performed by GC/FPD.	-	n. d.
二丁基錫 / Dibutyl Tin (DBT)	mg/kg	Analysis was performed by 60/11b.	0.03	n. d.
二辛基錫 / Dioctyl Tin (DOT)	mg/kg	]	0.03	n. d.
揮發性有機物質 (VOCs) / Volatile organic compounds (VOCs)				
1,1,1,2-四氯乙烷 / 1,1,1,2- Tetrachloroethane (CAS No.: 630-20- 6)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,1,1-三氯乙烷 / 1,1,1- Trichloroethane (CAS No.: 71-55-6)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,1,2,2-四氯乙烷 / 1,1,2,2- Tetrachloroethane (CAS No.: 79-34-5)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.

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1,1,2-三氯乙烷 / 1,1,2- Trichloroethane (CAS No.: 79-00-5)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	No. 1 n. d.
1,1-二氯乙烯 / 1,1-Dichloroethene (CAS No.: 75-35-4)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,1-二氯乙烷 / 1,1-Dichloroethane (CAS No.: 75-34-3)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,1-二氯丙烯 / 1,1-Dichloropropene (CAS No.: 563-58-6)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,2,3-三氯苯 / 1,2,3- Trichlorobenzene (CAS No.: 87-61-6)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1, 2, 3-三氯丙烷 / 1, 2, 3- Trichloropropane (CAS No.: 96-18-4)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1, 2, 4-三氯苯 / 1, 2, 4- Trichlorobenzene (CAS No.: 120-82-1)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.

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1,2,4-三甲基苯 / 1,2,4- Trimethylbenzene (CAS No.: 95-63-6)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,2-二溴-3-氯丙烷 / 1,2-Dibromo-3- chloropropane (CAS No.: 96-12-8)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,2-二溴乙烷 / 1,2-Dibromoethane (CAS No.: 106-93-4)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,2-二氯苯 / 1,2-Dichlorobenzene (CAS No.: 95-50-1)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,2-二氯乙烷 / 1,2-Dichloroethane (CAS No.: 107-06-2)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,2-二氯丙烷 / 1,2-Dichloropropane (CAS No.: 78-87-5)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,3,5-三甲基苯 / 1,3,5- Trimethylbenzene (CAS No.: 108-67-8)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.

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1,3-二氯苯 / 1,3-Dichlorobenzene (CAS No.: 541-73-1)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,3-二氯丙烷 / 1,3-Dichloropropane (CAS No.: 142-28-9)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
1,4-二氯苯 / 1,4-Dichlorobenzene (CAS No.: 106-46-7)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
2,2-二氯丙烷 / 2,2-Dichloropropane (CAS No.: 594-20-7)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
2-氯甲苯 / 2-Chlorotoluene (CAS No.: 95-49-8)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
4-氯甲苯 / 4-Chlorotoluene (CAS No.: 106-43-4)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
苯 / Benzene (CAS No.: 71-43-2)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.



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溴苯 / Bromobenzene (CAS No.: 108-86-1)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
溴氯甲烷 / Bromochloromethane (CAS No.: 74-97-5)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
一溴二氯甲烷 / Bromodichloromethane (CAS No.: 75-27-4)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
溴仿 / Bromoform (CAS No.: 75-25-2)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
溴甲烷 / Bromomethane (CAS No.: 74-83-9)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
四氯甲烷(四氯化碳)/ Carbon tetrachloride (CAS No.: 56-23-5)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
氣苯 / Chlorobenzene (CAS No.: 108-90-7)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.



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氯乙烷 / Chloroethane (CAS No.: 75-00-3)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
氣仿 / Chloroform (CAS No.: 67-66-3)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
氣甲烷 / Chloromethane (CAS No.: 74-87-3)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
順-1,2-二氯乙烯 / cis-1,2- Dichloroethene (CAS No.: 156-59-2)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
順-1,3-二氯丙烯 / cis-1,3- Dichloropropene (CAS No.: 10061-01- 5)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
一氣二溴甲烷 / Dibromochloromethane (CAS No.: 124-48-1)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
二溴甲烷 / Dibromomethane (CAS No.: 74-95-3)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.

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二氯二氟甲烷 / Dichlorodifluoromethane (CAS No.: 75-71-8)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
乙苯 / Ethylbenzene (CAS No.: 100-41-4)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
六氯丁二烯 / Hexachlorobutadiene (CAS No.: 87-68-3)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
異丙基苯 / Isopropylbenzene (CAS No.: 98-82-8)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
二氯甲烷 / Dichloromethane (CAS No.: 75-09-2)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
蒸 / Naphthalene (CAS No.: 91-20-3)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
正丁基苯 / n-Butylbenzene (CAS No.: 104-51-8)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.

日期(Date): 2016/08/10



# **Test Report**

鈞均企業股份有限公司 SHYANGE PAINT CO., LTD. 桃園市大園區埔心村7鄰76號

NO. 76, 7LIN, PUHSIN VILL, TAYUAN DISTRICT, TAOYUAN CITY, TAIWAN, R.O.C.

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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)
正丙基苯 / n-Propy1benzene(CAS No.: 103-65-1)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was	10	No. 1 n. d.
鄰-二甲苯 / o-Xylene (CAS No.: 95-47-6)	mg/kg	performed by GC/MS. 参考US EPA 5021A (2014),以氣相層 析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was	10	n. d.
間,對-二甲苯 / m, p-Xylene (CAS No.: 108-38-3, 106-42-3)	mg/kg	performed by GC/MS. 参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
對-異丙基甲苯 / p-Isopropyltoluene (CAS No.: 99-87-6)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
2-甲基丙基苯 / sec-Butylbenzene (CAS No.: 135-98-8)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
苯乙烯 / Styrene (CAS No.: 100-42-5)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
2,2-二甲基乙基苯 / 2,2-tert- Butylbenzene (CAS No.: 98-06-6)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.

日期(Date): 2016/08/10



# **Test Report**

鈞均企業股份有限公司 SHYANGE PAINT CO., LTD. 桃園市大園區埔心村7鄰76號 NO. 76, 7LIN, PUHSIN VILL, TAYUAN DISTRICT, TAOYUAN CITY, TAIWAN, R.O.C.

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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
四氯乙烯 / Tetrachloroethene (CAS No.: 127-18-4)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
甲苯 / Toluene (CAS No.: 108-88-3)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
反-1,2-二氯乙烯 / trans-1,2- Dichloroethene (CAS No.: 156-60-5)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
反-1,3-二氯丙烯 / trans-1,3- Dichloropropene (CAS No.: 10061-02- 6)	mg/kg	参考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
三氯乙烯 / Trichloroethylene (CAS No.: 79-01-6)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
三氯一氟甲烷 / Trichlorofluoromethane (CAS No.: 75- 69-4)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.
氯乙烯 / Vinyl chloride (CAS No.: 75-01-4)	mg/kg	參考US EPA 5021A (2014),以氣相層析/質譜儀檢測. / With reference to US EPA 5021A (2014). Analysis was performed by GC/MS.	10	n. d.



## **Test Report**

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#### 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. \*\*\*: 該物質是由三丁基錫之測試結果計算得知. 其MDL是針對三丁基錫之評估. (The substance was calculated by the test results of Tributyl Tin. The MDL was evaluated for Tributyl Tin.)

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6. 參數換算表 / Parameter Conversion Table: Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH\_tw.asp



## **Test Report**

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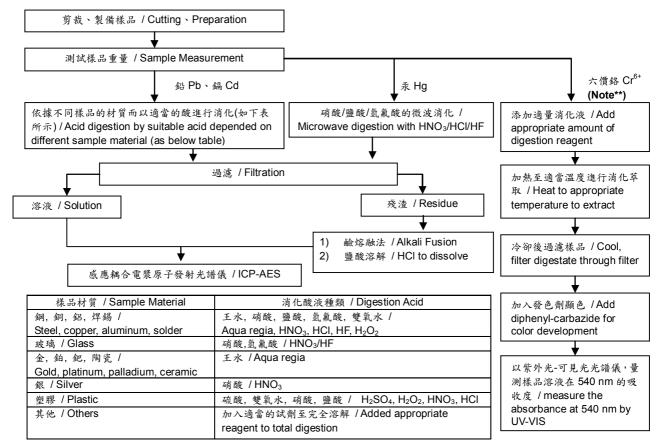
#### 重金屬流程圖 / Analytical flow chart of Heavy Metal (IEC 62321)

日期(Date): 2016/08/10

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. ( Cr<sup>6+</sup> test method excluded )

- 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 90~95℃
- (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.



## **Test Report**

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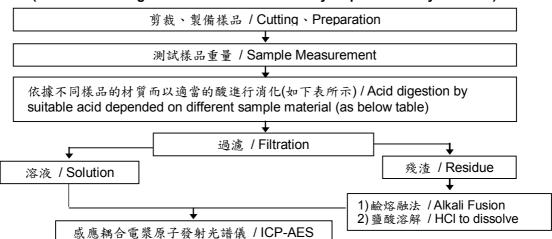
頁數(Page): 15 of 20

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.

- 測試人員:王志瑋 / Technician: JR Wang
- 測試負責人:張啟興 / Supervisor: Troy Chang

#### 元素以 ICP-AES 分析的消化流程圖 (Flow Chart of digestion for the elements analysis performed by ICP-AES)

日期(Date): 2016/08/10



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水/
	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
玻璃 / Glass	硝酸,氫氟酸 / HNO <sub>3</sub> /HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO <sub>3</sub>
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCI
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion



# **Test Report**

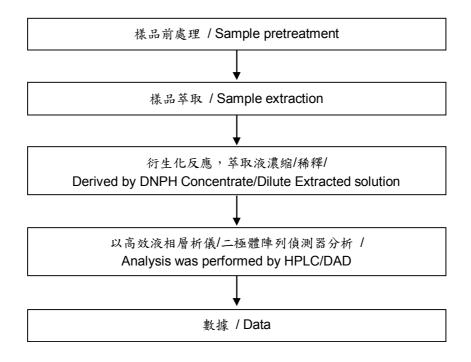
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#### 甲醛分析流程圖 / Analytical flow chart - Formaldehyde

測試人員:涂雅苓 / Technician: Yaling Tu

測試負責人:張啟興 / Supervisor: Troy Chang





# **Test Report**

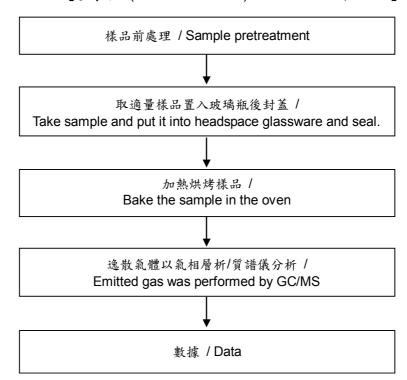
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#### 揮發性有機化合物分析流程圖 / Analytical flow chart - volatile organic compounds (VOCs)

- 測試人員:吳椿景 / Technician: Chun Wu
- 測試負責人: 陳新智 / Supervisor: Shinjyh Chen

【参考方法(Reference method): US EPA 5021, 5021A】





## 測試報告 **Test Report**

鈞均企業股份有限公司 SHYANGE PAINT CO., LTD. 桃園市大園區埔心村7鄰76號 NO. 76, 7LIN, PUHSIN VILL, TAYUAN DISTRICT, TAOYUAN CITY, TAIWAN, R.O.C.

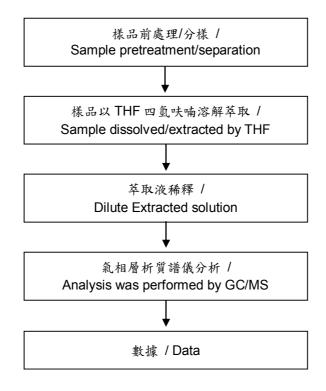
號碼(No.): CE/2016/80914 日期(Date): 2016/08/10 頁數(Page): 18 of 20

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

測試人員:徐毓明 / Technician: Andy Shu

測試負責人:張啟興 / Supervisor: Troy Chang

【測試方法/Test method: IEC 62321-8】





## 測試報告 **Test Report**

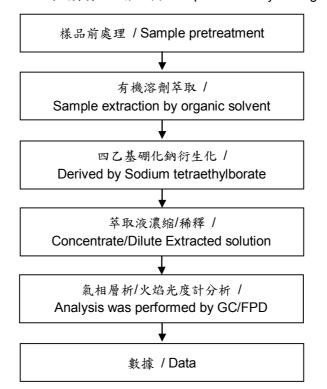
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### 有機錫分析流程圖 / Analytical flow chart - Organic-Tin

測試人員:涂雅苓 / Technician: Yaling Tu

測試負責人:張啟興 / Supervisor: Troy Chang





# **Test Report**

鈞均企業股份有限公司 SHYANGE PAINT CO., LTD. 桃園市大園區埔心村7鄰76號

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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.)

號碼(No.): CE/2016/80914 日期(Date): 2016/08/10

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\*\* 報告結尾 (End of Report) \*\*