

Test Report

報告編號(No.): HKC25400069

報告日期(DATE): 2025/04/18

頁數(PAGE): 1 of 5

文采有限公司 (ALION TECHNOLOGY CO., LTD.)

台中市梧棲區自立一街42號 (NO. 42, TZU LI 1ST STREET, WU CHI DIST., TAICHUNG CITY, 43546, TAIWAN, R. O. C.)

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) : 文采有限公司 (ALION TECHNOLOGY CO., LTD.)

: INK(油墨) 樣品名稱(Sample Description) : 白(WHITE) 樣品型號(Style/Item No.)

收件日(Sample Receiving Date) : 2025/04/09

: 2025/04/09 to 2025/04/18 測試期間(Testing Period)

測試需求 (Test Requested)

依據客戶要求·參考以下指令進行測試:2009/48/EC及其修正指令Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 - EN 71-3: 2019 + A2: 2024 特定元素遷移。測 試項目請參閱測試結果表格。 (As specified by client, the sample(s) was/were tested with reference to Directive 2009/48/EC and its amendments Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 - EN71-3: 2019 + A2:2024 - Migration of certain elements. Please refer to the result table(s) for details.)

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

Ray Chang, Ph.D. / Department Manager Signed for and on behalf of

SGS Taiwan Ltd 化學實驗室-高雄/

Chemical Laboratory-Kaohsiung





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測試部位敘述(Test Part Description)

No.1 : 白色油墨(乾基) (WHITE INK (DRY BASE))

測試結果(Test Results)

第三類:可刮取的玩具材料。 / Category III: Scrapped-off toy material.

通過(PASS)

					世紀(PASS)			
測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)	參考限值 (Ref.			
				No.1	Limit)			
EN 71-3:2019 + A2:2024 - 可遷移元素 / EN 71-3:2019 + A2:2024 - Migration of certain elements								
溶出鋅 (Zn) / Soluble Zinc (Zn) (CAS No.7440-66-6)	參考 EN 71-3:2019 + A2:2024.以 感應耦合電漿原子發射光譜儀(ICP- OES)分析。 / With reference to EN -71-3:2019 + A2:2024. Analysis was performed by ICP-OES.	mg/kg	50	1690	46000			
溶出鍶 (Sr) / Soluble Strontium (Sr) (CAS No.7440-24-6)		mg/kg	50	n.d.	56000			
溶出錫 (Sn) / Soluble Tin (Sn) (CAS No.7440-31-5)		mg/kg	4.9	n.d.	180000			
溶出鎳 (Ni) / Soluble Nickel (Ni) (CAS No.7440-02-0)		mg/kg	10	n.d.	930			
溶出錳 (Mn) / Soluble Manganese (Mn) (CAS No.7439-96-5)		mg/kg	50	n.d.	15000			
溶出銅 (Cu) / Soluble Copper (Cu) (CAS No.7440-50-8)		mg/kg	50	n.d.	7700			
溶出鉻 (Cr) / Soluble Chromium (Cr) (CAS No.7440-47-3)		mg/kg	5	n.d.	-			
溶出鋇 (Ba) / Soluble Barium (Ba) (CAS No.7440-39-3)		mg/kg	50	n.d.	18750			
溶出硼 (B) / Soluble Boron (B) (CAS No.7440-42-8)		mg/kg	50	n.d.	15000			

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測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result) No.1	參考限值 (Ref. Limit)
溶出鋁 (AI) / Soluble Aluminum (AI) (CAS No.7429-90-5)	參考 EN 71-3:2019 + A2:2024·以 感應耦合電漿原子發射光譜儀(ICP- OES)分析。 / With reference to EN 71-3:2019 + A2:2024. Analysis was performed by ICP-OES.	mg/kg	50	213	28130
溶出硒 (Se) / Soluble Selenium (Se) (CAS No.7782-49-2)		mg/kg	10	n.d.	460
溶出銻 (Sb) / Soluble Antimony (Sb) (CAS No.7440-36-0)		mg/kg	10	n.d.	560
溶出鉛 (Pb) / Soluble Lead (Pb) (CAS No.7439-92-1)		mg/kg	10	n.d.	23
溶出汞 (Hg) / Soluble Mercury (Hg) (CAS No.7439-97-6)		mg/kg	10	n.d.	94
溶出鈷 (Co) / Soluble Cobalt (Co) (CAS No.7440-48-4)		mg/kg	10	n.d.	130
溶出砷 (As) / Soluble Arsenic (As) (CAS No.7440-38-2)		mg/kg	10	n.d.	47
溶出鎘 (Cd) / Soluble Cadmium (Cd) (CAS No.7440-43-9)		mg/kg	5	n.d.	17
溶出六價鉻 Cr (VI) / Soluble Chromium (VI) (Cr (VI)) (CAS No.18540-29-9)	參考 EN 71-3:2019 + A2:2024·以 液相層析感應耦合電漿質譜儀(LC-ICP-MS)分析。 / With reference to EN 71-3:2019 + A2:2024. Analysis was performed by LC-ICP-MS.	mg/kg	0.01	n.d.	0.053
溶出三價鉻 Cr (III) / Soluble Chromium (III) (Cr (III)) (CAS No.16065-83-1)	參考 EN 71-3: 2019 + A2: 2024·溶 出三價鉻由計算求得。 / With reference to EN 71-3: 2019 + A2: 2024. Soluble Chromium (III) was obtained by calculation.	mg/kg	5	n.d.	460

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 No. 61, Kai-Fa Road, Nanzih Dist., Kaohsiung, Taiwan



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測試項目 (Test Item(s))	測試項目 測試方法 (Test Item(s)) (Method)	單位 (Unit)	RL	結果 (Result)	參考限值 (Ref.		
(Test itelli(s))				No.1	Limit)		
溶出有機錫 / Soluble organic tin							
單丁基錫 (BuT) / n-butyltin (BuT)	參考 EN 71-3:2019 + A2:2024,以 氣相層析質譜儀(GC/MS)分析。 / With reference to EN 71-3:2019 + A2:2024. Analysis was performed by GC/MS.	mg/kg	1.8	n.d.	-		
二丁基錫 (DBT) / Dibutyl tin (DBT)		mg/kg	1.8	n.d.	-		
二甲基錫 (DMT) / Dimethyl tin (DMT)		mg/kg	1.8	n.d.	-		
二辛基錫 (DOT) / Dioctyl tin (DOT)		mg/kg	1.8	n.d.	-		
二苯基錫 (DPhT) / Diphenyl tin (DPhT)		mg/kg	1.8	n.d.	-		
丙基錫 (DProT) / Di-n-propyl tin		mg/kg	1.8	n.d.	-		
單甲基錫 (MeT) / Methyl tin (MeT)		mg/kg	1.8	n.d.	-		
單辛基錫 (MOT) / Monooctyl tin (MOT)		mg/kg	1.8	n.d.	-		
三丁基錫 (TBT) / Tributyl tin (TBT)		mg/kg	1.8	n.d.	-		
四丁基錫 (TeBT) / Tetrabutyl tin (TeBT)		mg/kg	1.8	n.d.	-		
三苯基錫 (TPT) / Triphenyl tin (TPT)		mg/kg	1.8	n.d.	-		
溶出有機錫 / Soluble Organic Tin		mg/kg	-	n.d.	12		

備註(Note):

- 1. mg/kg = ppm; 0.1% = 1000 ppm
- 2. RL = Reporting Limit (報告極限值)
- 3. n.d. = Not Detected (未檢出) = Less than (小於) RL
- 4. 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
- 5. 本實驗室之報告符合性聲明依ILAC-G8:09/2019簡單允收之二分法判定規則(w=0·AL=TL)做為測試結果符合性聲明 判定之判定依據。(The decision rule of the statements of conformity is following the ILAC G8:09/2019 by using the simple acceptance decision rule.)
- 6. "-" = Not Regulated (無規格值)
- 7. 樣品以乾基進行測試。 (Test done on dried paint sample.)

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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.)

HKC25400069



** 報告結尾 (End of Report) **

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