

測試報告 Test Report

報告編號(No.): HKF24100142

報告日期(DATE): 2024/01/31

頁數(PAGE): 1 of 5

台達化學工業股份有限公司 (TAITA CHEMICAL COMPANY, LIMITED)

台達化學工業股份有限公司高雄分公司 (TAITA CHEMICAL COMPANY, LIMITED KAOHSIUNG BRANCH)

台北市內湖區基湖路39號12樓 (12F., NO.39, JIHU RD., NEIHU DIST., TAIPEI CITY 114, TAIWAN (R.O.C.))

高雄市林園區工業一路5號 (NO. 5, INDUSTRIAL 1ST RD., LIN YUAN DIST., KAOHSIUNG, 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) : 台達化學工業股份有限公司 (TAITA CHEMICAL COMPANY, LIMITED)
樣品名稱(Sample Description) : ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER (ABS RESIN)
樣品型號(Style/Item No.) : 1000、1000T、1000D、5000、5000W、5000M、5000S、5000A、1250、5002、5000F、1003、3000D、3000P、6000P、6000、5000I
樣品材質(Sample Material) : ABS RESIN
生產或供應廠商(Manufacturer/Vendor) : 台達化學工業股份有限公司 (TAITA CHEMICAL COMPANY, LIMITED)

收件日(Sample Receiving Date) : 2024/01/22
測試期間(Testing Period) : 2024/01/22 to 2024/01/31

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 + A1:2021 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 + A1:2021 – 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

報告簽署人/張伯睿 博士/部經理
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 : 白色塑膠粒 (WHITE PLASTIC PELLETS)

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)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)	參考限值 (Ref. Limit)
				No.1	
溶出鋁 (Al) / Soluble Aluminum (Al) (CAS No.7429-90-5)	參考 EN 71-3 : 2019 + A1 : 2021 . 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 + A1 : 2021. Analysis was performed by ICP-OES.	mg/kg	50	n.d.	28130
溶出砷 (As) / Soluble Arsenic (As) (CAS No.7440-38-2)		mg/kg	10	n.d.	47
溶出硼 (B) / Soluble Boron (B) (CAS No.7440-42-8)		mg/kg	50	n.d.	15000
溶出鋇 (Ba) / Soluble Barium (Ba) (CAS No.7440-39-3)		mg/kg	50	n.d.	18750
溶出鎘 (Cd) / Soluble Cadmium (Cd) (CAS No.7440-43-9)		mg/kg	5	n.d.	17
溶出鈷 (Co) / Soluble Cobalt (Co) (CAS No.7440-48-4)		mg/kg	10	n.d.	130
溶出銅 (Cu) / Soluble Copper (Cu) (CAS No.7440-50-8)		mg/kg	50	n.d.	7700
溶出汞 (Hg) / Soluble Mercury (Hg) (CAS No.7439-97-6)		mg/kg	10	n.d.	94
溶出錳 (Mn) / Soluble Manganese (Mn) (CAS No.7439-96-5)		mg/kg	50	n.d.	15000
溶出鎳 (Ni) / Soluble Nickel (Ni) (CAS No.7440-02-0)		mg/kg	10	n.d.	930

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測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)	參考限值 (Ref. Limit)
				No.1	
溶出鉛 (Pb) / Soluble Lead (Pb) (CAS No.7439-92-1)	參考 EN 71-3 : 2019 + A1 : 2021 . 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 + A1 : 2021. Analysis was performed by ICP-OES.	mg/kg	10	n.d.	23
溶出銻 (Sb) / Soluble Antimony (Sb) (CAS No.7440-36-0)		mg/kg	10	n.d.	560
溶出銣 (Sr) / Soluble Strontium (Sr) (CAS No.7440-24-6)		mg/kg	50	n.d.	56000
溶出硒 (Se) / Soluble Selenium (Se) (CAS No.7782-49-2)		mg/kg	10	n.d.	460
溶出錫 (Sn) / Soluble Tin (Sn) (CAS No.7440-31-5)		mg/kg	4.9	n.d.	180000
溶出鋅 (Zn) / Soluble Zinc (Zn) (CAS No.7440-66-6)		mg/kg	50	n.d.	46000
溶出鉻 (Cr) / Soluble Chromium (Cr) (CAS No.7440-47-3)		mg/kg	5	n.d.	-
三價鉻 (CrIII) / Chromium III (CrIII) (CAS No.16065-83-1)	參考 EN 71-3 : 2019 + A1 : 2021 . 溶出三價鉻由計算求得。 / With reference to EN 71-3 : 2019 + A1 : 2021. Soluble Chromium (III) was obtained by calculation.	mg/kg	5	n.d.	460
六價鉻 Cr(VI) / Hexavalent Chromium Cr(VI) (CAS No.18540-29-9)	參考 EN 71-3 : 2019 + A1 : 2021 . 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 + A1 : 2021. Analysis was performed by LC-ICP-MS.	mg/kg	0.02	n.d.	0.053

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測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)	參考限值 (Ref. Limit)
				No.1	
有機錫 / Soluble organic tin					
單丁基錫 (BuT) / n-butyltin (BuT)	參考 EN 71-3 : 2019 + A1 : 2021 · 以氣相層析質譜儀(GC/MS)分析。 / With reference to EN 71-3 : 2019 + A1 : 2021. 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.	-
二丙基錫 (DProT) / Di-n-propyl tin (DProT)		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) / Monoctyl 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) / Tetra-butyl tin (TeBT)		mg/kg	1.8	n.d.	-
三苯基錫 (TPT) / Triphenyl tin (TPT)		mg/kg	1.8	n.d.	-
二甲基錫 (DMT) / Dimethyl tin (DMT)		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. "-" = Not Regulated (無規格值)
5. 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
6. 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.)

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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.)

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**** 報告結尾 (End of Report) ****

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