

Report No. 報告號: 48200110b2 001

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Client 客戶: Formosa Chemicals & Fibre Corporation/台灣化學纖維股份有限公司
201, Tung Hwa N. Rd., Taipei 105, Taiwan / 台灣105台北市敦化北路201號

Test item(s) 測試樣品: ACRYLONITRILE/BUTADIENE/STYRENE COPOLYMERS (丙烯酸腈/丁二烯/苯乙烯
共聚合樹脂)

Identification/Model No(s) 樣品描述/規格: TAIRILAC ABS AE8000, AF3500, AF3530, AF3535, AF3537, AF3560, AF3600,
AH2003, AG1000, AG100H, AG10NP, AG10NP-T, AG10NP-H, AG12A0, AG12A1,
AG12A3, AG12AJ, AG15A0, AG15A1, AG15A1-H, AG15A2, AG15A3, AG15AM,
AG15E0, AG15E1, AG15E3, AG15AB, AG15AJ, AG22AT, AG23AT, AG26AT,
AG27AT, AX4000, AX4100, AX4300

Sample obtaining method: 樣品獲取方式: Sending by customer

Condition at delivery: 樣品接收狀態: Test item complete and undamaged.

Sample receiving date: 收樣日期: 2022-12-30

Testing period: 測試週期: 2023-01-04 – 2023-01-17

Place of testing: 測試地點: TÜV Rheinland Hong Kong Ltd.

Test specification 測試要求:

Test result 測試結果:

Testing according to customer's specification for the following parameters:
EN 71-3:2019+A1:2021 Migration of 19 Elements/19 項重金屬溶出量

Pass/合格

Other information: 其他信息: The test sample is model no. TAIRILAC ABS AE8000. All the above models are the same
material/color/ manufacturing process according to client's declaration dated on 2023-01-04.

For and on behalf of
TÜV Rheinland Taiwan Ltd.

Arthur Cheng

Arthur Cheng/Project Manager
Name/Position 姓名/職位



2023-01-17
Date 日期

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be
duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity
and its rule of enforcement for test results are applicable throughout this test report.
樣品信息由客戶提供。測試結果根據所做測試的種類和範圍而得出。本測試報告僅對來樣負責。未經本測試中心許可，測試報告不得部分
複製。不能根據此報告在上述產品或類似產品上使用任何安全標誌。本測試報告中，描述符合性聲明所應用的判定規則發佈在我司官網
<https://www.tuv.com/landingpage/en/qm-gcn/>。

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第2頁共3頁Test Method/測試方法 : Migration of 19 Elements - with reference to EN 71-3:2019+A1:2021,
analyzed by ICP-OES / ICP-MS / LC-ICP-MS/ IC-UV/ GC-MS.

Sample/樣品明細 Material/材質 Lab.-No./實驗室編號			TAIRILAC ABS AE8000 plastic/塑膠 / white/白色 TCL221230-02	Required by EN 71-3 (Category 3) 法規要求
Test Parameter/測試項目	Unit/ 單位	RL	Result/結果	
Aluminum (Al) / 鋁	mg/kg	10	< RL	28,130
Antimony (Sb) / 銻	mg/kg	5	< RL	560
Arsenic (As) / 砷	mg/kg	5	< RL	47
Barium (Ba) / 鋇	mg/kg	2.5	< RL	18,750
Boron (B) / 硼	mg/kg	10	< RL	15,000
Cadmium (Cd) / 鎘	mg/kg	1	< RL	17
Chromium III (CrIII) / 三價鉻 §	mg/kg	10	< RL	460
Chromium VI (CrVI) / 六價鉻 §	mg/kg	0.045	< RL	0.053
Cobalt (Co) / 鈷	mg/kg	2.5	< RL	130
Copper (Cu) / 銅	mg/kg	2.5	< RL	7,700
Lead (Pb) / 鉛	mg/kg	2.5	< RL	23
Manganese (Mn) / 錳	mg/kg	2.5	< RL	15,000
Mercury (Hg) / 汞	mg/kg	2.5	< RL	94
Nickel (Ni) / 鎳	mg/kg	2.5	< RL	930
Selenium (Se) / 硒	mg/kg	10	< RL	460
Strontium (Sr) / 銩	mg/kg	2.5	< RL	56,000
Tin (Sn) / 錫	mg/kg	1	< RL	180,000
Organic Tin / 有機錫 ^	mg/kg	0.2	< RL	12
Zinc (Zn) / 鋅	mg/kg	10	< RL	46,000

Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

Remark:

- * Categorization of toys materials is based on the material texture. According to point H.11 of Annex H to EN 71-3:2019, cosmetic materials with dry, brittle, powder like or pliable texture such as lipstick and eyeshadow are considered as category I materials. However, as a reminder, it cannot preclude the possibility that some national enforcement authorities might take a more stringent action to treat cosmetic materials as sticky and evaluate according to category II requirement as they are intended to be applied on skin and retained for long time.

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Test Sample/測試樣品



--- End of Test-Report / 此報告結束---