

測試報告

Test Report

報告編號(No.): HTF21400039M01

報告日期(DATE): 2021/05/03

頁數(PAGE): 2 of 7

樂緹股份有限公司 (LASTIC INCORPORATION)

桃園市桃園區春日路1492-3號1樓 (1F., NO. 1492-3, CHUNRI RD., TAOYUAN DIST., TAOYUAN CITY, TAIWAN)

測試部位敘述(Test Part Description)

No.1 : 米色吸管 (BEIGE STRAW)

測試結果(Test Results)

通過(PASS)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)	限值 (Limit)
				No.1	
感官測試 (氣味) / Sensorial examination odour (Point scale) (Δ)	參考DIN 10955: 2004. / With reference to DIN 10955: 2004.	-	-	0.0	2.5
感官測試 (味道) / Sensorial examination taste (Point scale) (Δ)		-	-	0.0	2.5
總遷移量 (10% 乙醇, 迴流, 1小時) / Overall Migration (10% ethanol, reflux, 1 h)	參考 EN 1186: 2002. / With reference to EN 1186: 2002.	mg/dm ²	3	n.d.	10
總遷移量 (20% 乙醇, 迴流, 1小時) / Overall Migration (20% ethanol, reflux, 1 h)		mg/dm ²	3	n.d.	10
總遷移量 (50% 乙醇, 迴流, 1小時) / Overall Migration (50% ethanol, reflux, 1 h)		mg/dm ²	3	5.67	10
鉛 / Lead (Pb)	參考US EPA 3052 · 以感應耦合電漿原子發射光譜儀(ICP-OES)分析。 / With reference to US EPA 3052. Analysis was performed by ICP-OES.	mg/kg	2	n.d.	Absent (▲7)
鎘 / Cadmium (Cd)		mg/kg	2	n.d.	Absent (▲7)

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測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)	限值 (Limit)
				No.1	
重金屬特定遷移 / Specific Migration of Heavy Metals					
鉻 / Chromium (Cr)	參考 EN 13130-1: 2004, 以感應耦合電漿質譜儀分析。(3% 醋酸, 70°C, 1 小時) / With reference to EN 13130-1: 2004. Analysis was performed by ICP-MS. (3% acetic acid, 70°C, 1 h)	mg/kg	0.01	n.d.	Absent
砷 / Arsenic (As)		mg/kg	0.01	n.d.	Absent
鎘 / Cadmium (Cd)		mg/kg	0.002	n.d.	Absent
汞 / Mercury (Hg)		mg/kg	0.01	n.d.	Absent
鉛 / Lead (Pb)		mg/kg	0.01	n.d.	Absent
鋰 / Lithium (Li)		mg/kg	0.5	n.d.	0.6
鋁 / Aluminum (Al)		mg/kg	0.25	0.410	1
錳 / Manganese (Mn)		mg/kg	0.25	n.d.	0.6
鐵 / Iron (Fe)		mg/kg	0.25	n.d.	48
鈷 / Cobalt (Co)		mg/kg	0.01	n.d.	0.05
鎳 / Nickel (Ni)		mg/kg	0.01	n.d.	0.02
銅 / Copper (Cu)		mg/kg	0.25	n.d.	5
鋅 / Zinc (Zn)		mg/kg	0.5	n.d.	5
鋇 / Barium (Ba)		mg/kg	0.25	n.d.	1
銻 / Antimony (Sb)		mg/kg	0.01	n.d.	0.04
鐳 / Lanthanum (La)		mg/kg	0.01	0.0210	0.05 (Gd+Eu +La+Tb Total)
鎔 / Europium (Eu)		mg/kg	0.01	n.d.	
釓 / Gadolinium (Gd)	mg/kg	0.01	n.d.		
鐿 / Terbium (Tb)	mg/kg	0.01	n.d.		
鈉 / Sodium (Na)	參考 EN 13130-1: 2004, 以感應耦合電漿原子發射光譜儀分析。(3% 醋酸, 70°C, 1 小時) / With reference to EN 13130-1: 2004. Analysis was performed by ICP-OES. (3% acetic acid, 70°C, 1 h)	mg/kg	1	n.d.	-
鈣 / Calcium (Ca)		mg/kg	1	401	-
鉀 / Potassium (K)		mg/kg	1	n.d.	-
鎂 / Magnesium (Mg)		mg/kg	1	n.d.	-
銨 / Ammonium (Δ)	參考 EN 13130-1: 2004, 以離子層析儀分析。(3% 醋酸, 70°C, 1 小時) / With reference to EN 13130-1: 2004. Analysis was performed by IC. (3% acetic acid, 70°C, 1 h)	mg/kg	5	n.d.	-

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(2)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)	限值 (Limit)
				No.1	
多環芳香烴 / Polycyclic Aromatic Hydrocarbons (PAHs)					
苯駢(a)芘 / Benzo(a)pyrene (CAS No.:50-32-8)	參考AfPS GS 2019:01 PAK, 以氣相層析儀/質譜儀分析。 / With reference to AfPS GS 2019:01 PAK. Analysis was performed by GC-MS.	mg/kg	0.2	n.d.	-
苯駢(e)芘 / Benzo(e)pyrene (CAS No.:192-97-2)		mg/kg	0.2	n.d.	-
苯駢蒽 / Benzo(a)anthracene (CAS No.:56-55-3)		mg/kg	0.2	n.d.	-
苯(b)苯駢芴 / Benzo(b)fluoranthene (CAS No.:205-99-2)		mg/kg	0.2	n.d.	-
苯(j)苯駢芴 / Benzo(j)fluoranthene (CAS No.:205-82-3)		mg/kg	0.2	n.d.	-
苯(k)苯駢芴 / Benzo(k)fluoranthene (CAS No.:207-08-9)		mg/kg	0.2	n.d.	-
蒽 / Chrysene (CAS No.:218-01-9)		mg/kg	0.2	n.d.	-
二苯駢蒽 / Dibenzo(a,h)anthracene (CAS No.:53-70-3)		mg/kg	0.2	n.d.	-
苯駢芘 / Benzo(g,h,i)perylene (CAS No.:191-24-2)		mg/kg	0.2	n.d.	-
茚酮芘 / Indeno(1,2,3-cd)pyrene (CAS No.:193-39-5)		mg/kg	0.2	n.d.	-
蒽 / Anthracene (CAS No.:120-12-7)		mg/kg	0.2	n.d.	-
苯駢芴 / Fluoranthene (CAS No.:206-44-0)		mg/kg	0.2	n.d.	-
菲 / Phenanthrene (CAS No.:85-01-8)		mg/kg	0.2	n.d.	-
芘 / Pyrene (CAS No.:129-00-0)		mg/kg	0.2	n.d.	-
萘 / Naphthalene (CAS No.:91-20-3)		mg/kg	0.2	n.d.	-
多環芳香烴15項總和 / Sum of 15 PAHs	mg/kg	-	n.d.	-	

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Remark :

- 感官測試之測試條件(Test condition for Sensorial examination) : Distilled Water, 40°C, 1 h
分數評價 (0.5進制) / Intensity scale (rounded at 0.5):
 - 0 - 沒有明顯差異 / no perceptible difference
 - 1 - 淺顯的差異 / just perceptible difference
 - 2 - 略有差異 / slight difference
 - 3 - 顯著的差異 / marked difference
 - 4 - 極大的差異 / strong difference
- 此測試依據歐盟法規Commission Regulation (EU) 10/2011及其修訂法規 Commission Regulation (EU) 2020/1245 進行測試。(The testing is according to Commission Regulation (EU) No 10/2011 with its amendment Commission Regulation (EU) 2020/1245.)
- (▲7) 限值是依據BfR Recommendation XVII. / Limit is according to BfR Recommendation XVII.

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000 ppm
2. mg/dm² = milligram per square decimeter (毫克/每100平方公分)
3. RL = Reporting Limit (報告極限值)
4. n.d. = Not Detected (未檢出) = Less than (小於) RL
5. "-" = Not Regulated (無規格值)
6. °C = degree Celsius (攝氏溫度)
7. 測試條件及模擬液是由客戶指定。(Test condition and simulant were specified by client.)
8. 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
9. 測試結果的符合性判定不納入量測不確定度。(The statement of conformity is based on the test results, but does not include the measurement uncertainty.)
10. (△): 此項目轉包予台灣檢驗科技股份有限公司超微量工業安全實驗室進行測試。(The testing item(s) was/were subcontracted to SGS Taiwan Ltd. UTIS Laboratory.)
11. 本報告為 HTF21400039及HTF21400039A01 之加發修改報告。報告加發日期 2021年05月03日。(This report is an addition / revision report for HTF21400039 and HTF21400039A01 which was issued on 2021/05/03.)

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德國產品安全委員會(AfPS) GS PAHs 要求 /

AfPS (German commission for Product Safety): GS PAHs requirements

項目 (Parameter)	第 1 類(Category 1)	第 2 類(Category 2)		第 3 類(Category 3)	
	預期放入口中的材質 · 或在預期使用中長期與皮膚接觸(超過 30 秒)的材質受 2009 / 48 / EC 指令規範的玩具或供 3 歲以下兒童 ^{ab} 使用 (Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use: in toys according to Directive 2009/48/EC or for the use by children up ^{ab} to 3 years of age.)	不屬於類別 1 的材質 · 在預期或可預見的使用過程中 ^d · 與皮膚長期接觸(超過 30 秒) · 或短期重複接觸 ^c (Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact ^c with skin during the intended or foreseeable use ^d .)	兒童使用	其他消費品	兒童使用
Benzo[a]pyrene (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[ghi]perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-cd]pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Pyrene (PYR)					
Anthracene (ANT)					
Fluoranthene (FLT)					
Naphthalene (NAP)	< 1	< 2		< 10	
15 項 PAH 總濃度 (Sum of 15 PAH)	< 1	< 5	< 10	< 20	< 50

單位(Unit) : mg/kg

- NOTE:**
- 兒童定義為未滿 14 歲的人。 / A "child" is legally defined as a person before reaching the age of 14 years.
 - 包括兒童主動和被動直接接觸。 / Use by children includes both active and passive direct contact by children.
 - 短期重複接觸的定義參照 REACH 附錄 XVII 第 50 項的修正案 Regulation (EC) No 1272/2013。 / Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment Regulation (EC) No 1272/2013.
 - 根據德國產品安全法 (ProdSG) 的定義 (第 1 章第 2 條第 28 款)。 / According to the definition of the German Product Safety Act (ProdSG) (Chapter 1 Article 2 No. 28).

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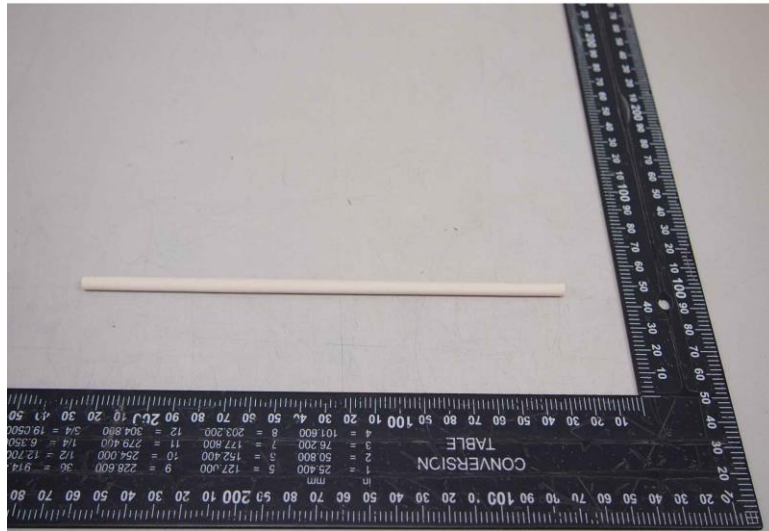
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

HTF21400039



** 報告結尾 (End of Report) **

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