**紡織實驗室**

# Test Report 報告號碼: TX71593 /2024 /CR 日期: 2024 年 07 月 22 日頁數: 六 之 一 頁

禮想家網路贈品股份有限公司
新北市汐止區福德一路 430 巷 23 號

我們依照客戶的要求,根據申請者送交的樣品進行測試如下:

| | | |
|---|---|---|
| 樣品敘述 | : | 棉+T 雙層毛巾 |
| 顏色 | : | 白色布+全彩昇華 |
| 成份 | : | 毛面精梳棉+平面 T 超細纖維布 |
| 布重 | : | 492gsm |
| 最終產品 | : | 毛巾 |
| 生產/供應商 | : | 禮想家網路贈品股份有限公司 |
| 原產國家 | : | 台灣 |
| 申請者 | : | 禮想家網路贈品股份有限公司 |
| 收件日期 | : | 2024 年 07 月 16 日 |
| 測試週期 | : | 2024 年 07 月 16 日 至 2024 年 07 月 22 日 |
| 測試要求 | : | 依申請者要求檢測中華民國國家標準 CNS 15290 L1036 紡織品安全規範(一般要求)部份項目:<br>1) 游離甲醛<br>2) 偶氮<br>3) 有機錫<br>4) 壬基酚及壬基酚聚氧乙烯醚 |
| 測試結果 | : | 請參照下一頁結果 |

台灣檢驗科技股份有限公司

郭靈
主任

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測試結果:

## 1. 游離甲醛

測試方法: 依中華民國國家標準 CNS 15580-1 L3271-1:2012 紡織品 - 甲醛檢測法
- 第一部 游離及水解甲醛 (水萃取法) - 使用紫外光/可見光分光光譜儀分析.

| | 測試結果 (毫克/公斤) | CNS 15290 上限值 (毫克/公斤) | | | |
|---|---|---|---|---|---|
| | 1 | 嬰幼兒 | 與皮膚直接接觸 | 與皮膚非直接接觸 | 室內裝飾 |
| 游離甲醛 | 未偵測出 | 20 | 75 | 300 | 300 |

樣品敘述:
1. 棉+T 雙層毛巾

備註: 報告極限值: 16 毫克/公斤

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測試結果:

## 2. 偶氮

測試方法: 依中華民國國家標準 CNS 16113-1 L3280-1:2019/ CNS 16113-3 L3280-3:2019 使用氣相層析質譜儀/高效液相層析儀二極體陣列偵測器檢測

| 禁 用 胺 類 | CAS No. | 測試結果 (毫克/公斤) 經萃取 1+2+3 | CNS 15290 上限值 (毫克/公斤) |
|---|---|---|---|
| 對-胺基聯苯 | 92-67-1 | 未偵測出 | 30 |
| 聯苯胺 | 92-87-5 | 未偵測出 | 30 |
| 對-氯-鄰-甲苯胺 | 95-69-2 | 未偵測出 | 30 |
| 2-萘胺 | 91-59-8 | 未偵測出 | 30 |
| 鄰-胺基偶氮甲苯 | 97-56-3 | 未偵測出 | 30 |
| 5-硝基-鄰-甲苯胺 | 99-55-8 | 未偵測出 | 30 |
| 4-氯苯胺 | 106-47-8 | 未偵測出 | 30 |
| 2,4-二氨基苯甲醚 | 615-05-4 | 未偵測出 | 30 |
| 4,4'-二胺基二苯甲烷 | 101-77-9 | 未偵測出 | 30 |
| 二氯聯苯胺 | 91-94-1 | 未偵測出 | 30 |
| 二甲氧基聯苯胺 | 119-90-4 | 未偵測出 | 30 |
| 鄰-二甲基聯苯胺 | 119-93-7 | 未偵測出 | 30 |
| 3,3'-二甲基 4,4'-二胺基-二苯甲烷 | 838-88-0 | 未偵測出 | 30 |
| 2-甲氧基-5-甲基苯胺 | 120-71-8 | 未偵測出 | 30 |
| 4,4'-亞甲雙(2-氯苯胺) | 101-14-4 | 未偵測出 | 30 |
| 4,4'-二胺基二苯醚 | 101-80-4 | 未偵測出 | 30 |
| 4,4'-硫二苯胺 | 139-65-1 | 未偵測出 | 30 |
| 鄰-甲苯胺 | 95-53-4 | 未偵測出 | 30 |
| 2,4-甲苯二胺 | 95-80-7 | 未偵測出 | 30 |
| 2,4,5-三甲苯胺 | 137-17-7 | 未偵測出 | 30 |
| 鄰-甲氧基苯胺 | 90-04-0 | 未偵測出 | 30 |
| 4-胺基偶氮苯 | 60-09-3 | 未偵測出 | 30 |

樣品敘述:
1. 棉+T 雙層毛巾-紅色印刷部位
2. 棉+T 雙層毛巾-黃色印刷部位
3. 棉+T 雙層毛巾-黑色印刷部位

備註: 報告極限值: 5 毫克/公斤.

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當 4-氨基聯苯（CAS NO. 92-67-1），2-萘胺（CAS NO. 91-59-8）及 2,4-二氨基甲苯(CAS NO. 615-05-4）被檢測出時，這些被禁用的偶氮染料需有額外資訊才能確切地被證實。
假如有使用聚胺酯材質，例如：聚胺酯泡棉或塗層時，MDA（CAS NO. 101-77-9）及 TDA（CAS NO. 95-80-7)是無法被排除，這些胺類是從聚胺酯中釋出而不是來自被禁用的偶氮染料。同樣的，色料印刷材質，MDA 來源不是從禁用的偶氮染料中釋出而是來自化學固色劑。
中華民國標準 CNS 16113-1 L3280-1 會進一步將 4-AAB(Cas No. 60-09-3)裂解成非禁用的胺:苯胺和對苯二胺。如果未發現苯胺和/或對苯二胺，則 4-AAB 被認為是“未檢測出”（即<5.0 毫克/公斤）。否則，將採用 CNS 16113-3 L3280-3 來驗證 4-AAB 的存在。

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測試結果:

## 3.有機錫

測試方法: 依中華民國國家標準CNS 15290 L1036 5.4節/CNS 15853-1 S2180-1，使用氣相層析質譜儀(GC/MS)分析

| | 測試結果<br>(毫克/公斤) | CNS 15290 上限值<br>(毫克/公斤) | | | |
|---|---|---|---|---|---|
| | 1 | 嬰幼兒 | 與皮膚<br>直接接觸 | 與皮膚<br>非直接接觸 | 室內<br>裝飾 |
| 三丁基錫 (TBT) | 未偵測出 | 0.5 | 1.0 | 1.0 | 1.0 |
| 三苯基錫 (TPT) | 未偵測出 | 0.5 | 1.0 | 1.0 | 1.0 |

樣品敘述:
1.棉+T 雙層毛巾

備註: 報告極限值: 0.1 毫克/公斤

## 4.壬基酚聚氧乙烯醚 (NPEO)及壬基酚 (NP)

測試方法: 依中華民國標準 CNS 15579 L3270:2023. 使用液相層析/質譜儀分析.

| | 結果<br>(毫克/公斤) | CNS 15290 上限值<br>(毫克/公斤) |
|---|---|---|
| | 1 | |
| 壬基酚聚氧乙烯醚 | 未偵測出 | / |
| 壬基酚 | 未偵測出 | / |
| 總含量 | 未偵測出 | 100 |

樣品敘述:
1.棉+T 雙層毛巾

備註: 報告極限值: 壬基酚聚氧乙烯醚: 1 毫克/公斤
壬基酚: 10 毫克/公斤

以上測試由 SGS 相關實驗室執行

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樣品照片




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