紡織實驗室

Test Report 報告號碼: TX71864 /2023 /NN 日期: 2023 年 07 月 27 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	:	超細纖維毛巾
顏色	:	白色布+全彩昇華
成份	:	75% 聚酯纖維 25% 尼龍
布重	:	250gsm
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	:	2023 年 07 月 21 日
測試週期	:	2023 年 07 月 21 日至 2023 年 07 月 27 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: 1) 游離甲醛 2) 偶氮 3) 有機錫 4) 壬基酚及壬基酚聚氧乙烯醚 其它項目依申請者要求進行測試 : 5) 溶出遷移元素
測試結果	:	請參照下一頁結果

台灣檢驗科技股份有限公司

張家豪

張家豪
技術經理

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紡織實驗室

Test Report **報告號碼: TX71864 /2023 /NN 日期: 2023 年 07 月 27 日頁數: 六 之 二 頁**

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 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. 白色布+全彩昇華超細纖維毛巾

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/ CNS 16113-3 L3280-3 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） 不經萃取 1	測試結果（毫克/公斤） 經萃取 1	CNS 15290 上限值（毫克/公斤）
對-胺基聯苯	92-67-1	未偵測出	未偵測出	30
聯苯胺	92-87-5	未偵測出	未偵測出	30
對-氯-鄰-甲苯胺	95-69-2	未偵測出	未偵測出	30
2-萘胺	91-59-8	未偵測出	未偵測出	30
鄰-胺基偶氮甲苯	97-56-3	未偵測出	未偵測出	30
5-硝基-鄰-甲苯胺	99-55-8	未偵測出	未偵測出	30
4-氯苯胺	106-47-8	未偵測出	未偵測出	30
2,4-二氨基苯甲醚	615-05-4	未偵測出	未偵測出	30
4,4'-二胺基二苯甲烷	101-77-9	未偵測出	未偵測出	30
二氯聯苯胺	91-94-1	未偵測出	未偵測出	30
二甲氧基聯苯胺	119-90-4	未偵測出	未偵測出	30
鄰-二甲基聯苯胺	119-93-7	未偵測出	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	未偵測出	30
2-甲氧基-5-甲基苯胺	120-71-8	未偵測出	未偵測出	30
4,4'-亞甲雙(2-氯苯胺)	101-14-4	未偵測出	未偵測出	30
4,4'-二胺基二苯醚	101-80-4	未偵測出	未偵測出	30
4,4'-硫二苯胺	139-65-1	未偵測出	未偵測出	30
鄰-甲苯胺	95-53-4	未偵測出	未偵測出	30
2,4-甲苯二胺	95-80-7	未偵測出	未偵測出	30
2,4,5-三甲苯胺	137-17-7	未偵測出	未偵測出	30
鄰-甲氧基苯胺	90-04-0	未偵測出	未偵測出	30
4-胺基偶氮苯	60-09-3	未偵測出	未偵測出	30

樣品敘述:
1. 白色布+全彩昇華超細纖維毛巾

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（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
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. 白色布+全彩昇華超細纖維毛巾

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. 使用液相層析/質譜儀分析.

	結果（毫克/公斤）	CNS 15290 上限值（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	1000

樣品敘述:
1. 白色布+全彩昇華超細纖維毛巾

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

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測試結果:

5. 溶出遷移元素

測試方法：參考國際標準組織方法 ISO 8124-3: 2010, 使用感應耦合電漿分析

元素	測試結果 (毫克/公斤)	限量值 (毫克/公斤)
	1	
鉛(溶出)	未偵測出	90
銻(溶出)	2.06	60
砷(溶出)	未偵測出	25
鋇(溶出)	未偵測出	1000
鎘(溶出)	未偵測出	75
鉻(溶出)	未偵測出	60
汞(溶出)	未偵測出	60
硒(溶出)	未偵測出	500

樣品敘述:
1. 白色布+全彩昇華超細纖維毛巾

備註: 報告極限值:
銻, 汞, 硒: 2 毫克/公斤
砷, 鉛, 鎘, 鉻, 鋇: 1 毫克/公斤

以上由 SGS 相關實驗室執行

樣品照片



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