

## 紡織實驗室

**Test Report** 報告號碼: TX31778 /2020 /PL 日期: 2020 年 04 月 14 日 頁數: 六 之 一 頁

竣樂家居設計有限公司  
宜蘭縣羅東鎮純精路一段 32 號 1 樓

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 : 一塊放電生活電位能針織布

顏色 : 灰色

申請者 : 竣樂家居設計有限公司

收件日期 : 2020 年 04 月 07 日

測試週期 : 2020 年 04 月 07 日至 2020 年 04 月 14 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) 鉛
- 3) 偶氮
- 4) 鎘
- 5) 有機錫

其它項目依申請者要求進行測試 :

- 6) 織物收縮率檢驗

測試結果 : 請見下面說明

台灣檢驗科技股份有限公司

郭靈

主任



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Test Report 報告號碼: TX31778 /2020 /PL 日期: 2020 年 04 月 14 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 (ppm)	CNS 15290 上限值 (ppm)			
		嬰幼兒	與皮膚 直接接觸	與皮膚 非直接接 觸	室內 裝飾
	<u>1</u>				
游離甲醛	未偵測出	20	75	300	300

樣品敘述:

1. 灰色放電生活電位能針織布

備註: ppm = mg/kg  
報告極限值: 16 ppm

**2. 鉛**

測試方法: 依中華民國國家標準 CNS 4797-2 Z 7066-2, 使用感應耦合電漿分析

	結果 (毫克/公斤)	CNS 15290 上限值 (毫克/公斤)
	<u>1</u>	
鉛 (Pb)	未偵測出	90

樣品敘述:

1. 灰色放電生活電位能針織布

備註: 報告極限值: 1 毫克/公斤

紡織實驗室

Test Report 報告號碼: TX31778 /2020 /PL 日期: 2020 年 04 月 14 日頁數: 六 之 三 頁

測試結果:

3. 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/質譜儀分析。

禁用胺類

測試結果  
(毫克/公斤)

CNS 15290  
上限值  
(毫克/公斤)

	CAS No.	經萃取	不經萃取	
		1	1	
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. 灰色放電生活電位能針織布

備註: 報告極限值: 5 毫克/公斤。

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當對-胺基聯苯(化學摘要號碼 92-67-1)，2-萘胺(化學摘要號碼 91-59-8)或 2,4-二氨基苯甲醚(化學摘要號碼 615-05-4)被檢測出時，如果沒有額外的資料說明(例如著色劑的化學結構等)，被檢測樣品是否使用上述限制偶氮著色劑則無法確認。

當試樣有 PU 材質時，例如 PU 泡棉、塗層或印花，無法排除部份苯胺如 4,4'-二胺基二苯甲烷(簡稱 MDA, 化學摘要號碼 101-77-9)跟 2,4-甲苯二胺(簡稱 TDA, 化學摘要號碼 95-80-7)，可能源於 PU 釋出而不是限制偶氮著色劑

萬一當顏料印花製程中一定要使 4,4'-二胺基二苯甲烷(簡稱 MDA, 化學摘要號碼 101-77-9)，那麼 4,4'-二胺基二苯甲烷就可能不是源於限制偶氮著色劑而是來自於化學固色劑

中華民國標準 CNS 16113-1 L3280-1，會進一步將 4-胺基偶氮苯繼續還原，而產出非限制物質的苯胺和 1,4-苯二胺。因此，當苯胺及/或 1,4-苯二胺的分析結果是有數值時，則依照標準 CNS 16113-3 L3280-3 對 4-胺基偶氮苯的有無再次確認。

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測試結果:

**4. 鎘**

測試方法: 依中華民國國家標準 CNS 4797-2 Z 7066-2, 使用感應耦合電漿分析

	結果 (毫克/公斤)	CNS 15290 上限值 (毫克/公斤)
	1	
鎘 (Cd)	未偵測出	不得使用

樣品敘述:

1. 灰色放電生活電位能針織布

備註: 報告極限值: 1 毫克/公斤

**5. 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)			
		嬰幼兒	與皮膚 直接接觸	與皮膚 非直接接觸	室內 裝飾
	1				
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. 灰色放電生活電位能針織布

備註: 報告極限值: 0.2 毫克/公斤

以上測試由 SGS 相關實驗室執行

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測試結果:

### 6. 織物收縮率檢驗

測試方法: 參照中華民國國家標準 CNS 13752-L3243 6.30/CNS 8148-L1016/ CNS 15140-L3263  
- 模擬手洗 水溫 30°C±3°C - 掛乾- 洗一次

縱向	-0.3%
橫向	+0.8%

備註: (+)表示收縮 (-)表示伸長

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