

Test Report 報告號碼: TX20616 /2016 /LE 日期: 2016 年 02 月 24 日 頁數: 四 之 一 頁

華祐國際有限公司 新北市新莊區化成路 267 巷 42 號 2 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 : 一雙手套組 敘 述

色 : 粉紅/白色 顏

成 : 聚酯纖維 份

型 : 手套 號

請 者 : 華祐國際有限公司

: 2016 年 02 月 18 日 收 期 日

週 : 2016年02月18日至2016年02月24日 測 試

測試項目&測試方法 : 依申請者要求進行下列測試

: 請參照下一頁結果 測試結果

台灣檢驗科技股份有限公司



主任

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測試結果:

1. 偶氮

測試方法:

參考中華民國國家標準 CNS 15205-2 L3267-2 使用氣相層析/質譜儀分析. 對 4-胺基偶氮苯的檢測 - 參照德國食品及日用品法第 64 節 § 64 LFGB, BVL, B 82.02.9: 2008, 使用氣相層析/質譜儀分析

禁 用 胺 類		測試結果	最大極限值
		(毫克/公斤)	(毫克/公斤)
	化學摘要號碼	<u>1+2</u>	
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. 粉色大身表布部位
- 淺粉色大身表布部位

方法偵測極限: 5毫克/公斤. 備註:

> 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。

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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 15205-2 L3267-2,會進一步將對 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 德國食品及日用品法 § 64 LFGB, BVL, B 82.02.9對 4-胺基偶氮苯的有無再次確認。

偶氮的限制值,明訂於中華民國國家標準 CNS 15331 S2158 第 4.2.4 節

依據客戶的要求,隨機取樣進行混測測試,測試結果就是代表整體的結果。

2. 游離甲醛

測試方法: 參考中華民國國家標準 CNS 15580-1 L3271-1 - 紡織 - 甲醛檢測第一部分: 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.

化合物

(毫克/公斤) 未偵測出

甲醛

樣品敘述:

- 1. 粉色大身表布部位
- 2. 淺粉色大身表布部位

方法偵測極限 = 16 毫克/公斤 備註:

> 依據客戶的要求,隨機取樣進行混測測試,測試結果就是代表整體的結 果。

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樣品照片





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華祐國際有限公司 新北市新莊區化成路 267 巷 42 號 2 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:

: 一件圍裙 樣 品 敘 述

: 粉色/黄色/白色組 顏

成 : 聚酯纖維

型 號 : 圍裙

請 者 : 華祐國際有限公司

: 2016 年 02 月 18 日 收 期 日

週 : 2016年02月18日至2016年02月24日 測 試

測試項目&測試方法 : 依申請者要求進行下列測試

: 請參照下一頁結果 測試結果

台灣檢驗科技股份有限公司



主任

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測試結果:

1. 偶氮

測試方法:

參考中華民國國家標準 CNS 15205-2 L3267-2 使用氣相層析/質譜儀分析. 對 4-胺基偶氮苯的檢測 - 參照德國食品及日用品法第 64 節 § 64 LFGB, BVL, B 82.02.9: 2008, 使用氣相層析/質譜儀分析

禁 用 胺 類		測試結果 (毫克/公斤)	最大極限值 (毫克/公斤)
對-胺基聯苯 聯苯胺 對-氯-鄰-甲苯胺	<u>化學摘要號碼</u> 92-67-1 92-87-5 95-69-2	1+2+3 未偵測出 未偵測出 未偵測出	30 30 30
2-萘胺 鄰-胺基偶氮甲苯 5-硝基-鄰-甲苯胺 4-氯苯胺	91-59-8 97-56-3 99-55-8 106-47-8	未偵測出 未偵測別出 未偵測出 未偵測出	30 30 30 30
2, 4-二氨基苯甲醚 4, 4'-二胺基二苯甲烷 二氯聯苯胺 二甲氧基聯苯胺	$\begin{array}{c} 615 - 05 - 4 \\ 101 - 77 - 9 \\ 91 - 94 - 1 \\ 119 - 90 - 4 \end{array}$	· 未 未 長 偵 測 測 則 出 出 出 出 出 出 出 出 出 出 出 出 出	30 30 30 30 30
鄰-二甲基聯苯胺 3,3'-二甲基 4,4'-二胺基-二苯甲烷 2-甲氧基-5-甲基苯胺	119-93-7 838-88-0 120-71-8	未偵測出 未偵測出 未偵測出	30 30 30
4,4'-亞甲雙(2-氯苯胺) 4,4'-二胺基二苯醚 4,4'-硫二苯胺 鄰-甲苯胺	$ \begin{array}{c} 101-14-4 \\ 101-80-4 \\ 139-65-1 \\ 95-53-4 \end{array} $	未偵測出 未偵測別出 未偵測出 未偵測出	30 30 30 30
2, 4-甲苯二胺 2, 4, 5-三甲苯胺 鄰-甲氧基苯胺 4-胺基偶氮苯	95-80-7 137-17-7 90-04-0 60-09-3	未負測出出出出出出出出	30 30 30 30 30

樣品敘述:

- 1. 粉色大身表布部位
- 2. 白色大身表布部位
- 黄色大身表布部位

備註: 方法偵測極限: 5毫克/公斤.

> 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。

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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 15205-2 L3267-2,會進一步將對 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 德國食品及日用品法 § 64 LFGB, BVL, B 82.02.9對 4-胺基偶氮苯的有無再次確認。

偶氮的限制值,明訂於中華民國國家標準 CNS 15331 S2158 第 4.2.4 節

依據客戶的要求,隨機取樣進行混測測試,測試結果就是代表整體的結果。

2. 游離甲醛

測試方法: 參考中華民國國家標準 CNS 15580-1 L3271-1 - 紡織 - 甲醛檢測第一部分: 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.

化合物

(毫克/公斤) 1+2+3 未偵測出

甲醛

樣品敘述:

- 1. 粉色大身表布部位
- 2. 白色大身表布部位
- 3. 黄色大身表布部位

方法偵測極限 = 16 毫克/公斤 備註:

依據客戶的要求,隨機取樣進行混測測試,測試結果就是代表整體的結果。

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