

紡織實驗室

Test Report 報告號碼: TX81136 /2015 /LE 日期: 2015 年 08 月 25 日 頁數: 六 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:

樣品敘述 : 六雙阿朗基好咖船型襪

顏色 : A: (A1)黃色 (A2)藍綠色 (A3)粉色  
B: (B1)咖啡色 (B2)灰色 (B3)白色

申請者 : 華祐國際有限公司

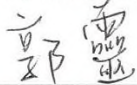
收件日期 : 2015 年 08 月 19 日

測試週期 : 2015 年 08 月 19 日至 2015 年 08 月 25 日

測試項目&測試方法 : 依申請者要求進行下列測試

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. 偶氮

測試方法: 參考中華民國國家標準 CNS 15205-1 L3267-1 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

	化學摘要號碼	測試結果 (毫克/公斤)			最大極限值 (毫克/公斤)
		(A1)-1+ (A2)-1+ (A2)-3	(A3)-1+ (A3)-2+ (A3)-3	(B1)-1+ (B2)-1+ (B3)-2	
對-胺基聯苯	92-67-1	未偵測出	未偵測出	未偵測出	30
聯苯胺	92-87-5	未偵測出	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	未偵測出	30
2-萘胺	91-59-8	未偵測出	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	未偵測出	30
5-硝基-鄰-甲苯胺	99-55-8	未偵測出	未偵測出	未偵測出	30
4-氯苯胺	106-47-8	未偵測出	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	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	未偵測出	30
二氯聯苯胺	91-94-1	未偵測出	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	未偵測出	30
鄰-二甲基聯苯胺	119-93-7	未偵測出	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	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	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	未偵測出	30
4,4'-二胺基二苯醚	101-80-4	未偵測出	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	未偵測出	30
鄰-甲苯胺	95-53-4	未偵測出	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	未偵測出	30
2,4,5-三甲苯胺	137-17-7	未偵測出	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	未偵測出	30
4-胺基偶氮苯	60-09-3	未偵測出	未偵測出	未偵測出	30
<b>總結論</b>		<b>通過</b>	<b>通過</b>	<b>通過</b>	

樣品敘述:

- (A1)-1: 黃色襪子的黃色部位
- (A2)-1: 藍綠色襪子的藍綠色部位
- (A2)-3: 藍綠色襪子的黃色部位
- (A3)-1: 粉色襪子的粉色部位
- (A3)-2: 粉色襪子的藕色部位
- (A3)-3: 粉色襪子的白色部位

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- (B1)-1: 咖啡色襪子的咖啡色部位
- (B2)-1: 灰色襪子的灰色部位
- (B3)-2: 白色襪子的黑/白色部位

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。

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'-二氨基二苯甲烷(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'-二氨基二苯甲烷(簡稱 MDA,化學摘要號碼 101-77-9),那麼 4,4'-二氨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 15205-1 L3267-1 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。

偶氮的上限值,說明於中華民國國家標準 CNS 15205-1 L3267-1 附錄 C (該上限值同歐盟標準 2002/61/EC)

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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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

	化學摘要號碼	測試結果 (毫克/公斤)			最大極限值 (毫克/公斤)
		(A1)-1+ (A2)-1+ (A2)-3	(A3)-1+ (A3)-2+ (A3)-3	(B1)-1+ (B2)-1+ (B3)-2	
對-胺基聯苯	92-67-1	未偵測出	未偵測出	未偵測出	30
聯苯胺	92-87-5	未偵測出	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	未偵測出	30
2-萘胺	91-59-8	未偵測出	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	未偵測出	30
5-硝基-鄰-甲苯胺	99-55-8	未偵測出	未偵測出	未偵測出	30
4-氯苯胺	106-47-8	未偵測出	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	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	未偵測出	30
二氯聯苯胺	91-94-1	未偵測出	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	未偵測出	30
鄰-二甲基聯苯胺	119-93-7	未偵測出	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	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	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	未偵測出	30
4,4'-二胺基二苯醚	101-80-4	未偵測出	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	未偵測出	30
鄰-甲苯胺	95-53-4	未偵測出	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	未偵測出	30
2,4,5-三甲苯胺	137-17-7	未偵測出	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	未偵測出	30
4-胺基偶氮苯	60-09-3	未偵測出	未偵測出	未偵測出	30
<b>總結論</b>		<b>通過</b>	<b>通過</b>	<b>通過</b>	

樣品敘述:

- (A1)-1: 黃色襪子的黃色部位
- (A2)-1: 藍綠色襪子的藍綠色部位
- (A2)-3: 藍綠色襪子的黃色部位
- (A3)-1: 粉色襪子的粉色部位
- (A3)-2: 粉色襪子的藕色部位
- (A3)-3: 粉色襪子的白色部位

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- (B1)-1: 咖啡色襪子的咖啡色部位
- (B2)-1: 灰色襪子的灰色部位
- (B3)-2: 白色襪子的黑/白色部位

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。

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。

偶氮的上限值,說明於中華民國國家標準 CNS 15205-2 L3267-2 附錄 C (該上限值同歐盟標準 2002/61/EC)

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。

測試結果:

## 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	結果 (毫克/公斤)					
	(A1)	(A2)	(A3)	(B1)	(B2)	(B3)
甲醛	未偵測出	未偵測出	未偵測出	未偵測出	未偵測出	未偵測出

備註: 方法偵測極限 = 16 毫克/公斤

測試項目 1 & 2 由 SGS 相關實驗室執行。

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樣品照片:



(A1)



(A2)



(A3)



(B1)



(B2)



(B3)

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