

測試結果:

4. 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 1+2+3	不經萃取 1+2+3	
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. 黑色部位
2. 棕色部位
3. 膚色部位

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。

測試項目 2 ~ 4 由 SGS 相關實驗室執行

樣品照片



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