

Test Report 報告號碼: TX12511 /2021 /PL 日期: 2021 年 02 月 05 日頁數: 五 之 一 頁

松勝創新股份有限公司 桃園市中壢區南園二路七號

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 : 一塊聚丙烯紡黏布 敘 述

: 威尼斯紅色 顏

成 份 : 聚丙烯

申 請 者 : 松勝創新股份有限公司

: 2021 年 01 月 29 日 收 日

: 2021 年 01 月 29 日 至 2021 年 02 月 05 日 測 試 週

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

Signed for and on behalf of

SGS Taiwan Ltd.

Chang Chia Hao, Ronnie Asst. Manager

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測試結果:

1. 游離甲醛

測試方法:參考國際標準組織方法 ISO 14184-1:2011 使用紫外光/可見光分光光譜儀分析.

化合物	結果 (毫克/公斤)
	1
甲醛	未偵測出

樣品敘述:

1. 威尼斯紅色聚丙烯紡黏布

備註: 報告極限值 = 16 毫克/公斤

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-光學放射光譜儀

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

樣品敘述:

1. 威尼斯紅色聚丙烯紡黏布

報告極限值: 1 毫克/公斤

3. 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-光學放射光譜儀

	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. 威尼斯紅色聚丙烯紡黏布

報告極限值: 1 毫克/公斤 備註:

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測試結果:

4. 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)			
	<u>1</u>	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. 威尼斯紅色聚丙烯紡黏布

備註: 報告極限值: 0.1 毫克/公斤

5. 壬基酚 (NP)

測試方法: 參考中華民國標準 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	未偵測出	1000

樣品敘述:

1. 威尼斯紅色聚丙烯紡黏布

報告極限值: 10 毫克/公斤 備註:

6. 壬基酚聚氧乙烯醚 (NPEO)

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	CNS 15290 上限值
	(毫克/公斤)	(毫克/公斤)
	1	
壬基酚聚氧乙烯醚	未偵測出	1000

樣品敘述:

1. 威尼斯紅色聚丙烯紡黏布

備註: 報告極限值: 1毫克/公斤

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7. 偶氮

測試方法:

依據國際標準組織 ISO 14362-1:2017 - 使用氣相層析質譜儀/高效液相層析儀/二極體陣列分 4-胺基偶氮苯的檢測 - 依據國際標準組織 ISO 14362-3: 2017; 使用氣相層析質譜儀分析

		<u>結果</u> (毫克/公斤)	限制值 (毫克/公斤)
化學品 (胺類)		<u>1</u>	
	化學摘要號碼	脫色萃取	
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
4-胺基偶氮苯	60-09-3	未偵測出	30
鄰-甲氧基苯胺	90-04-0	未偵測出	30
2,6-二甲基苯胺	87-62-7	未偵測出	30
2,4-二甲基苯胺	95-68-1	未偵測出	30
結論		通過	

報告極限值: 5 毫克/公斤 (每一個化合物) 備註:

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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

測試方法 ISO 14362-1: 2017 的方法會將對氨基偶氮苯進一步還原為 苯胺跟 1,4-苯二胺;如果兩者或是任一的檢測結果是"未偵測出"(濃度小於 5 毫克/ 公斤),那麼對氨基偶氮苯 (CAS no: 60-09-3) 的測試結果,就以"未偵測出" 表示(也就是濃度小於5毫克/公斤), 反之,就要以 ISO 14362-3: 2017 方法進一步確認對氨基偶氮苯的含量.

測項 1~7 由 SGS 相關實驗室執行

8. 可遷移性螢光物質 (參照中華民國國家標準 CNS 11820 P3082)

陰性

備註: 陰性= 試樣無可遷移性螢光物質 陽性= 試樣有可遷移性螢光物質

9. 酸鹼值(依國際標準組織 ISO 3071:2020)

6.1

備註: 萃取液 pH 值: 5.0 - 7.5 萃取液温度: 22±2℃

> *** *** 結 束

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