SGS

材料及工程實驗室-台北

試 驗 報 告

報告編號：HV-13-03503X

頁　　數：1　　OF　　5

報告日期：2013 年 07 月 04 日

南亞塑膠工業股份有限公司

台北市敦化北路 201 號台塑大樓後棟 3 樓 331 室

我們依照顧客的要求，根據顧客提供的產品敘述如下：

產品敘述：　　2.0mmPVC 地磚

我們依照顧客的要求，根據顧客送交之樣品進行試驗結果如下：

委託試驗要求：(依照顧客提供之測試規格進行試驗，詳細內容請參照附頁。)

(1) 直角度
(2) 加熱長度變化量
(3) 吸水長度變化量
(4) 熱膨脹率
(5) 凹陷度
(6) 殘存凹陷度
(7) 加熱減量
(8) 耐藥品性
(9) 耐燃性
(10) 八大重金屬
(11) 耐磨耗性
(12) 剝離強度
(13) 防焰性

試驗結果：

—如附頁所示—

收件日期：　　2013 年 05 月 30 日

試驗日期：　　2013 年 05 月 30 日～2013 年 07 月 04 日

蔡仁志

報 告 簽 署 人

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t (886-2) 2298-3355　f (886-2) 2299-7857　www.sgs.tw

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試驗設備：

名稱	廠牌	型號
300mm 數位式游標卡尺	ECE	126343
1000mm 游標卡尺	LASER	A026018
數位指示計	Mitutoyo	543-691
間隙規	Mitutoyo	184-302S
耐磨耗性試驗機	TABER	5130
2kN 材料試驗機	INSTRON	5544
50kN 材料試驗機	INSTRON	5969
分析天平	METTLER	XS 204
可程式恆溫恆濕機	巨孚	GTH-225-60-IP-U
梅克爾燃燒試驗機	SUGA	FL-45MC

實驗室環境條件：

環境溫度：　23±2℃

相對濕度：　50±5%RH、60±10%RH

試驗方法：

CNS 8907(1991)　聚氯乙烯地磚檢驗法

CNS 3309(1977)　聚氯乙烯塑膠石棉地磚檢驗法

CNS 3557(1999)　硫化橡膠接著試驗法

CNS 7614(1994)　薄材料防焰性試驗法

試驗條件：

防焰性

試驗程序：　A 法

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台灣檢驗科技股份有限公司
35, Wu Chyuan Road, (New Taipei Industrial Park) Wu Ku District, New Taipei City, Taiwan /新北市五股區(新北產業園區)五權路35號
t (886-2) 2298-3355　f (886-2) 2299-7857　www.sgs.tw

試驗報告

報告編號：HV-13-03503X
頁　　數：3　OF　5
報告日期：2013 年 07 月 04 日

試驗結果：

試驗項目	試驗結果
直角度(mm)	
a. 間隙最大值	小於 0.03
加熱長度變化量(mm)	
a. 縱向	-0.14
b. 橫向	-0.20
吸水長度變化量(mm)	
a. 縱向	+0.02
b. 橫向	+0.03
熱膨脹率(℃$^{-1}$)	2.23×10^{-5}
凹陷度(mm)	
a. 20℃	1.02
b. 45℃	1.25
殘存凹陷度(mm)	0.08
加熱減量(%)	0.05
耐藥品性	
a. 大豆油	無顏色、光澤之變化及腫脹現象
b. 潤滑油	無顏色、光澤之變化及腫脹現象
c. 95%乙醇	無顏色、光澤之變化及腫脹現象
d. 2%氫氧化鈉水溶液	無顏色、光澤之變化及腫脹現象
e. 5%乙酸	無顏色、光澤之變化及腫脹現象
f. 5%氫氯酸	無顏色、光澤之變化及腫脹現象
g. 水泥漿	無顏色、光澤之變化及腫脹現象
耐燃性	火焰能 5 秒以內熄滅
耐磨耗性(mg)	1.1
剝離強度(kgf/m)	125.6

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測試項目	單位	測試方法	方法偵測極限值	結果
溶出銻	mg/kg	參考歐洲玩具標準 EN 71 PART 3: 1994(A1: 2000 / AC:2002) (EN 71-3 & BS 5665-3 are identical), 以感應耦合電漿原子發射光譜儀(ICP-AES)做分析.	5	n.d.
溶出砷	mg/kg		2.5	n.d.
溶出鋇	mg/kg		10	11.0
溶出鎘	mg/kg		5	n.d.
溶出鉻	mg/kg		5	n.d.
溶出鉛	mg/kg		5	n.d.
溶出汞	mg/kg		5	n.d.
溶出硒	mg/kg		5	n.d.

註：1. mg/kg = ppm；0.1wt% = 1000ppm

2. n.d. = Not Detected / 未檢出

3. MDL = Method Detection Limit / 方法偵測極限值

試驗項目	試驗結果	CNS7614(1994) 防焰一級規範值	CNS7614(1994) 防焰二級規範值	CNS7614(1994) 防焰三級規範值
火源加熱時間(sec)	10	-	-	-
餘焰時間(sec)	0.0	≦1	≦5	≦5
餘燼時間(sec)	0.0	≦60	≦60	≦60
炭化長度(cm)	2.6	≦5	≦10	≦15
註：樣品平均厚度 2.0mm				

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頁　　數：5　OF　5

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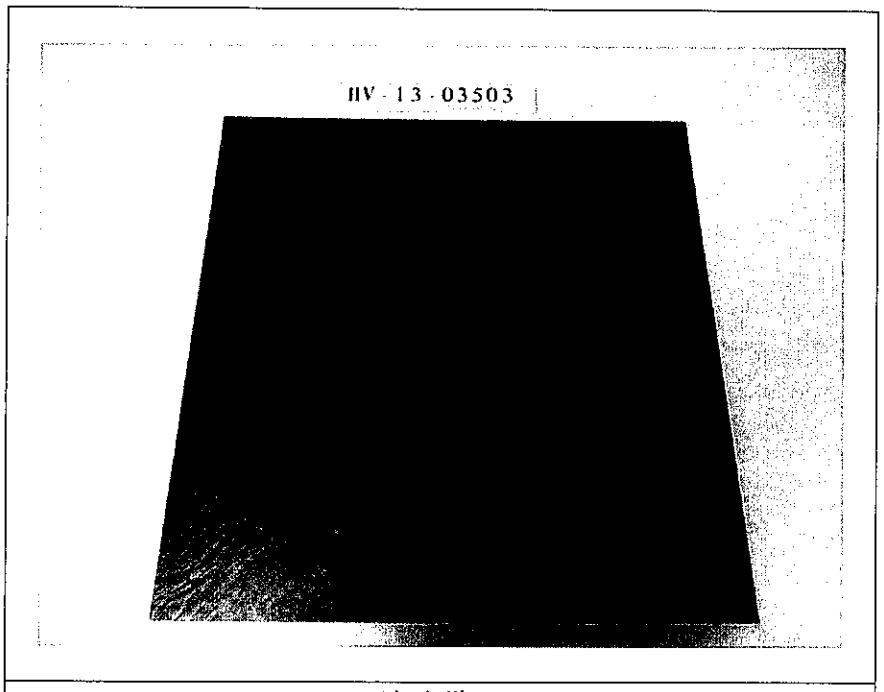
試驗照片：



試驗樣品

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