

試驗報告



報告編號: HV-12-03695X

頁數: 1 OF 2

報告日期: 102 年 01 月 18 日

委託單位: 百威靈有限公司
地址: 新北市淡水區埤島 42-21 號
供料廠商: 百威靈有限公司
樣品名稱: BT-668 彈性防水膜塗料
送驗人員: 百威靈有限公司(吳坤海)
收件日期: 101 年 06 月 06 日
試驗日期: 101 年 06 月 06 日~102 年 01 月 18 日
備註: 以上資料由顧客提供(收件及試驗日期除外)

試驗結果:

試驗項目	試驗方法	試驗結果
抗拉強度(kgf/cm ²)	ASTM D412-06ae2 (Die C、V=500mm/min)	45.1
伸長率(%)		271
撕裂強度(kgf/cm)	ASTM D624-00(2007) (Die C、V=500mm/min)	30.1
耐酸性(5% H ₂ SO ₄ , 23°C, 96 小時)	ASTM D543-06& ASTM D412-06ae2 (Die C、V=500mm/min)	49.7
a. 抗拉強度(kgf/cm ²)		135
b. 伸長率(%)		50.3
耐鹼性(5% NaOH, 23°C, 96 小時)		212
a. 抗拉強度(kgf/cm ²)	ASTM D573-04(2010)& ASTM D412-06ae2 (Die C、V=500mm/min)	52.6
b. 伸長率(%)		240
老化試驗(100°C, 70 小時)	ASTM D3359-09 Method B	5B(註 1)
a. 抗拉強度(kgf/cm ²)		
b. 伸長率(%)	ASTM D1308-02(2007) (Immerse)	浸漬試驗無異狀
耐鹽水性(5%NaCl, 23°C, 24 小時)		
水氣滲透率(g/24h·m ²)	ASTM E96-05 Procedure B	5.53
耐 UV 性(168 小時)	ASTM G155-05a cycle 1& ASTM D412-06ae2 (Die C、V=500mm/min)	53.6
a. 抗拉強度(kgf/cm ²)		205
b. 伸長率(%)	參考 ASTM D1894-08 C-Type (摩擦介面: 硫化橡膠, 砵碼+試樣: 217.7g)	0.87
摩擦係數(耐磨性)(乾式)		

規範要求值僅供參考, 合格之判定以委託單位實際要求為準。

商偉閣
報告簽署人

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試驗報告



報告編號：HV-12-03695X

頁數：2 OF 2

報告日期：102 年 01 月 18 日

試驗結果：

試驗項目	試驗方法	試驗結果
耐藥品性(5%醋酸, 23°C, 168 小時)	ASTM D1308-02(2007) (Immerse)	浸漬試驗無異常
耐洗刷性(2000 次)	ASTM D2486-06	可耐規定次數之洗淨試驗
耐冷熱反覆性(-20°C→100°C, 3cycles) a. 抗拉強度(kgf/cm ²) b. 伸長率(%)	CNS 11607(1995) ASTM D412-06ae2 (Die C, V=500mm/min)	44.4 259

試驗項目	單位	CAS NO.	試驗方法	檢測極限	試驗結果
甲醛	ppm (mg/kg)	000050-00-0	本測試參考 CNS 9538 方法， 以高效液相層析儀/二極體陣列 偵測器(HPLC/DAD)檢測。	3.00	35.3
揮發性有機物 (VOC)	g/L	---	本測試參考 ASTM D3960， 以 110±5 °C 烘乾 1 小時， 計算 VOC 含量。	0.200	39.6

試驗項目	單位	試驗方法	方法偵測 極限值	試驗結果
美國玩具標準 ASTM F963-08 (4.3.5) 重金屬		參考美國玩具標準 ASTM F963-08 (4.3.5) 重金屬		
總鉛	mg/kg	參考 CPSC-CH-E1003-09.1 方法檢測。	2	n.d.
溶出鎘	mg/kg	參考 ASTM F963-08 方法， 以感應耦合電漿原子發射 光譜儀(ICP-AES)檢測。	5	n.d.
溶出砷	mg/kg		2.5	n.d.
溶出鋇	mg/kg		10	n.d.
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. 每一條割痕，兩邊平滑且細，割痕之交叉點以及正方形每一方格內無任何可剝落現象。

2. mg/kg = ppm; 0.1wt% = 1000ppm

3. n.d. = Not Detected / 未檢出

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

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規範要求值僅供參考，合格之判定以委託單位實際要求為準。

高偉明
報告簽署人

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材料及工程實驗室-台北

試驗報告



報告編號: HV-13-00083X-1

頁數: 1 OF 1

報告日期: 102 年 01 月 07 日

委託單位: 百威靈有限公司
地址: 新北市淡水區埤里里埤里 42-21 號
供料廠商: 百威靈有限公司
樣品名稱: BT-668 彈性防水膜塗料
送驗人員: 百威靈有限公司(吳坤海)
收件日期: 101 年 11 月 27 日
試驗日期: 101 年 11 月 27 日~102 年 01 月 07 日
備註: 以上資料由顧客提供(收件及試驗日期除外)

試驗結果:

試驗項目	試驗方法	試驗結果
拉拔強度(kgf/cm ²)	參考 ASTM D4541-09el	17.0(磁磚破壞)

註: 1. 試驗試體由顧客提供。

2. 本試驗報告取代 HV-13-00083X, 原試驗報告作廢, 報告修改日期 102 年 03 月 28 日。

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規範要求值僅供參考, 合格之判定以委託單位實際要求為準。

高偉明
報告簽署人

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