

材料及工程實驗室-台中

試驗報告



報告編號：TV-16-01058Z

頁數：1 OF 2

報告日期：105年04月27日

委託單位：國麗化工有限公司
 產品名稱：氟碳粉末塗料
 產品型號：FR
 送驗廠商：國麗化工有限公司
 收件日期：104年07月30日
 試驗日期：104年07月30日~105年04月27日
 備註：1.以上資料由顧客提供(收件及試驗日期除外)
 2.除非另有說明，此報告結果僅對測試之樣品負責
 未經本公司事先書面同意，此報告不可部分複製

試驗結果：

測試項目	試驗方法	試驗結果	規範要求
光澤度(60度)	AAMA 2605-13	34	---
密著性		5B(100%)	100%
乾膜		5B(100%)	100%
濕膜		5B(100%)	100%
沸水		漆面無剝離現象	漆面無剝離現象
耐衝擊性(5/8",160in-lb)		104	---
乾膜厚度(μ m)		>40(註3)	40以上
耐磨性(L/mil)		2H	---
乾膜硬度		未起泡生鏽	未起泡生鏽
耐濕性 (100%RH,100°F,5000小時)		無起泡現象、 外觀無明顯變化	無起泡現象、 外觀無明顯變化
耐清潔劑 (3%重量)(100°F,72h)			

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本報告若有提供規範值時，該規範值僅供參考，合格之判定以委託單位實際要求為準。

報告簽署人

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試驗報告



報告編號：TV-16-01058Z

頁數：2 OF 2

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試驗結果：

測試項目	試驗方法	試驗結果	規範要求
耐候性試驗(5000小時) a. 色差(ΔE) b. 光澤度保持率(%) c. 外觀	ASTM G155-13	0.77 100 外觀無異狀	5 以下 ---- 外觀無異狀
鹽水噴霧試驗 (5%NaCl, 5000小時)	ASTM B117-11	無起泡或破損現象， 割線部分未產生 剝落銹蝕	無起泡或破損現象
耐化學性 鹽酸 硝酸(ΔE) 灰泥	AAMA 2605-13	顏色無明顯變化 顏色無明顯變化(0.13) 顏色無明顯變化	顏色無明顯變化 顏色變化不超過 5E 顏色無明顯變化
耐候後-腐蝕抵抗 乾膜厚度保留率(%)	AAMA 2605-13	100	---

註：1.本試驗報告光澤度、密著性、耐衝擊性、乾膜硬度、耐化學性及鹽水噴霧試驗為TAF認可項目

2.本試驗報告耐磨性試驗係委託SGS材料及工程實驗室-高雄執行

3.耐磨性試驗依委託單位指定，試驗執行至>40 L/mil 時即停止，此時塗膜已破損，但破損大小未達試驗終止點4 mm

4.下列為鹽水噴霧試驗相關條件/Test Conditions:

(1)試驗液使用之鹽：一級試藥

(2)採取溶液濃度：5 w/v % NaCl

(3)試驗液使用之水：純水

(4)噴霧之暴露區溫度($^{\circ}\text{C}$)：35.0 $\pm$ 1.0(5)噴霧量(ml/h/80cm²)：1.6 (Avg.)(6)供給空氣壓力(kgf/cm²)：1.0 (Avg.)

(7)洗淨方式：試驗前-維持客戶送樣時之狀態

：試驗後-以100 $^{\circ}\text{F}$ 溫水沖洗刷後擦拭並乾燥

(8)採取溶液pH值：6.6 (Avg.)

(9)試體支撐方式：15度角垂直放置

(10)保護方式種類：邊緣及背面金屬裸露部分採用蠟封法

5.耐濕性、耐候性、鹽水噴霧試驗是以Q panel AL-36標準版(客戶提供)為基材進行試驗

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