

試驗報告



報告編號：TV-25-00154

頁數：1 OF 6

報告發行日期：114年03月05日

易明國際股份有限公司

產品名稱：榮太科技·玻璃隔熱保溫節能塗層
 產品型號：LT-HIEC-03
 送驗廠商：易明國際股份有限公司
 收件日期：114年01月10日
 試驗日期：114年01月10日~114年03月05日
 備註：1.以上資料(會驗廠商、試驗方法、試驗數量、收件日期及試驗日期除外)及
 下述報告內容標示#處係由顧客提供
 2.除非另有說明，此報告結果僅適用於收取之試驗件
 未經本公司事先書面同意，此報告不可部分複製

試驗需求：

1. 遮蔽係數
2. 可見光反射率
3. 可見光透過率
4. 紫外線透過率
5. 總揮發性有機化合物
6. 甲醛含量

試驗方法：

請參見附頁

試驗結果：

請參見附頁

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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-25-00154

頁數：2 OF 6

報告發行日期：114年03月05日

試驗設備：

儀器名稱	廠牌	型號
UV-Vis-NIR Spectrometer	SHIMADZU	Solidspec-3700

實驗室環境條件：

環境溫度：25±2℃

相對溼度：50±25%RH

試驗方法：

ISO 9050：2003 Glass in building—Determination of light transmittance, solar direct transmittance, total solar energy transmittance, ultraviolet transmittance and related glazing factors.

試驗條件：

探測器單元：積分球

掃描速度：快速

波長間隔：5nm

波長範圍：300nm～2500nm

測量角度：8°（反射）

測量方式：透射、反射

試驗結果：

試驗項目	試驗結果
遮蔽係數	0.73

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試驗報告



報告編號：TV-25-00154

頁數：3 OF 6

報告發行日期：114年03月05日

試驗設備：

儀器名稱	廠牌	型號
UV-Vis-NIR Spectrometer	SHIMADZU	Solidspec-3700

實驗室環境條件：

環境溫度：25±2℃

相對溼度：50±25%RH

試驗方法：

ISO 9050：2003 Glass in building—Determination of light transmittance, solar direct transmittance, total solar energy transmittance, ultraviolet transmittance and related glazing factors.

試驗條件：

探測器單元：積分球

掃描速度：快速

波長間隔：10nm

波長範圍：380nm～780nm

測量模式：透射率

試驗結果：

試驗項目	試驗結果
可見光透過率(%)	81.0

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試驗報告



報告編號：TV-25-00154

頁數：4 OF 6

報告發行日期：114年03月05日

試驗設備：

儀器名稱	廠牌	型號
UV-Vis-NIR Spectrometer	SHIMADZU	Solidspec-3700

實驗室環境條件：

環境溫度：25±2°C

相對溼度：50±25%RH

試驗方法：

ISO 9050 : 2003 Glass in building—Determination of light transmittance, solar direct transmittance, total solar energy transmittance, ultraviolet transmittance and related glazing factors.

試驗條件：

探測器單元：積分球

掃描速度：快速

波長間隔：10nm

波長範圍：380nm~780nm

測量角度：8°（反射）

測量方式：反射

試驗結果：

試驗項目	試驗結果
可見光反射率(%)	5.6

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試驗報告



報告編號：TV-25-00154

頁數：5 OF 6

報告發行日期：114年03月05日

試驗設備：

儀器名稱	廠牌	型號
UV-Vis-NIR Spectrometer	SHIMADZU	Solidspec-3700

實驗室環境條件：

環境溫度：25±2°C

相對溼度：50±25%RH

試驗方法：

ISO 9050：2003 Glass in building—Determination of light transmittance, solar direct transmittance, total solar energy transmittance, ultraviolet transmittance and related glazing factors.

試驗條件：

探測器單元：積分球

掃描速度：快速

波長間隔：5nm

波長範圍：300nm～380nm

測量模式：透射率

試驗結果：

試驗項目	試驗結果
紫外線透過率(%)	10.2

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試驗報告



報告編號：TV-25-00154

頁數：6 OF 6

報告發行日期：114年03月05日

試驗結果：

試驗項目	CAS NO.	試驗方法	試驗結果		LOQ/ LOD	單位
			0-1hr	46-48hrs		
總揮發性有機化合物	---	參考 ASTM D5116-17 小型環控室法測定室內材料/製品中揮發性有機物排放，以氣象層析質譜儀分析。	0.0111	0.0060	0.005	mg/m ² · hr

試驗項目	CAS NO.	試驗方法	試驗結果		LOQ/ LOD	單位
			0-2hrs	44-48hrs		
甲醛測試	50-00-0	參考 ISO 16000-3:2022 和 ISO 16000-9:2024。分析採用 HPLC/DAD 進行。	N.D.	N.D.	0.005	mg/m ² · hr

註：1.遮陽係數測試、可見光反射率測試、可見光穿透率測試、紫外線透過率測試，委託SGS材料暨工程實驗室-高雄執行(報告編號：KV-25-00775)

2.總揮發性有機化合物測試、甲醛測試委託給SGS UTIS實驗室執行(報告編號：CUO25100649)

3.總揮發性有機化合物測試、甲醛測試：

(a)若檢測項目屬於定量分析，則此欄為檢測極限量(LOQ)；如果測試項目屬於定性分析，則此列描述檢測極限 (LOD)。

(b).結果報告為「N.D.」或「陰性」表示值低於 LOQ/LOD，且「微生物檢測中的 <LOQ>」代表低於LOQ的數值。

4.產品描述：塗層

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