

TEST REPORT

No. : GZMR250401137509

Date : Jul 24, 2025

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CUSTOMER NAME: Jiang Su Wan Yuan New Materials Co., Ltd.

ADDRESS: XingyeRoad,ShangdangTown,DantuDistrict,Zhenjiang,Jiangsu,China

Sample Name : Aluminum box with polymer UV-resistant coating

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : SHP25-011946

Date of Receipt : Apr 18, 2025

Testing Start Date : Apr 18, 2025

Testing End Date : Jul 24, 2025

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. Guangzhou Branch

Mico Yu.

Mico Yu
Authorized signatory



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Guangzhou Branch Material Testing Laboratory

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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Light Ageing Test-UV Exposure + Neutral Salt Spray (NSS) Test	ASTM G154-23 Cycle 1 & ASTM B117-19	See result	Pass

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.



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1. Test Item: Light Ageing Test-UV Exposure + Neutral Salt Spray (NSS) Test

Sample Description: A-Sheet

Test Method: ASTM G154-23 Cycle 1 & ASTM B117-19

Test Condition:

Light Ageing Exposure Cycle:

Lamp Type: UVA-340

8h UV at $(60 \pm 3)^{\circ}\text{C}$ BPT, $0.89\text{W}/(\text{m}^2 \cdot \text{nm})@340\text{nm}$

4h condensation at $(50 \pm 3)^{\circ}\text{C}$ BPT

Exposure Time: 1000h

Neutral Salt Spray (NSS) Test:

Concentration of Solution Collected: $(5 \pm 1)\%$ NaCl (m/m)

Chamber Temperature: $(35 \pm 2)^{\circ}\text{C}$

Volume of Salt Solution Collected: $(1.0 \sim 2.0)\text{ml}/(80\text{cm}^2 \cdot \text{h})$

pH of Collected Solution at $(23 \pm 3)^{\circ}\text{C}$: 6.5~7.2

Test Duration:1000h

Test Result:

Sample A

Light aging

Specimen	Appearance	Gloss loss, %	Client's requirement	Conclusion
A	Visual discoloration	3.5	Gloss loss $\leq 10\%$	Pass



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Neutral Salt Spray (NSS) Test

Specimen	Test Duration	Appearance	Rust grade	Degree of Blistering	Client's requirement	Conclusion
1	500h	No visual rust or blistering	10	10	Rust grade:10	/
2		No visual rust or blistering	10	10		/
3		No visual rust or blistering	10	10		/
1	1000h	No visual rust or blistering	10	10	Degree of Blistering:10	Pass
2		No visual rust or blistering	10	10		Pass
3		No visual rust or blistering	10	10		Pass



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Note:

1. Rust grade refers to ASTM D1654-24 procedure B and client's requirement & ASTM D610-08(2019), as follows:

Percent of surface rusted, A (%)	Rust grade
$A \leq 0.01$	10
$0.01 < A \leq 0.03$	9
$0.03 < A \leq 0.1$	8
$0.1 < A \leq 0.3$	7
$0.3 < A \leq 1.0$	6
$1.0 < A \leq 3.0$	5
$3.0 < A \leq 10.0$	4
$10.0 < A \leq 16.0$	3
$16.0 < A \leq 33.0$	2
$33.0 < A \leq 50.0$	1
$50 < A$	0

Rust rating using rust grade of 0-10 followed by the type of rust distribution identified by S for Spot, G for General, P for Pinpoint or H for Hybrid.

2. Degree of Blistering refers to ASTM D1654-24 procedure B and client's requirement & ASTM D714-25, including size and frequency: size is divided from grade 0 to grade 10, which grade 10 is the best, grade 0 is worst. Frequency is divided in four levels: Dense, D; Medium dense, MD; Medium, M and Few, F.

3. According to ISO 2813:2014, Gloss loss (60° geometry) = (the gloss before test - the gloss after test) / the gloss before test X100%.

4. According to client's requirement, the salt spray test only evaluates rust and blistering.

5. Intermediate inspection was carried out immediately without any treatment and the result is only for client's reference.



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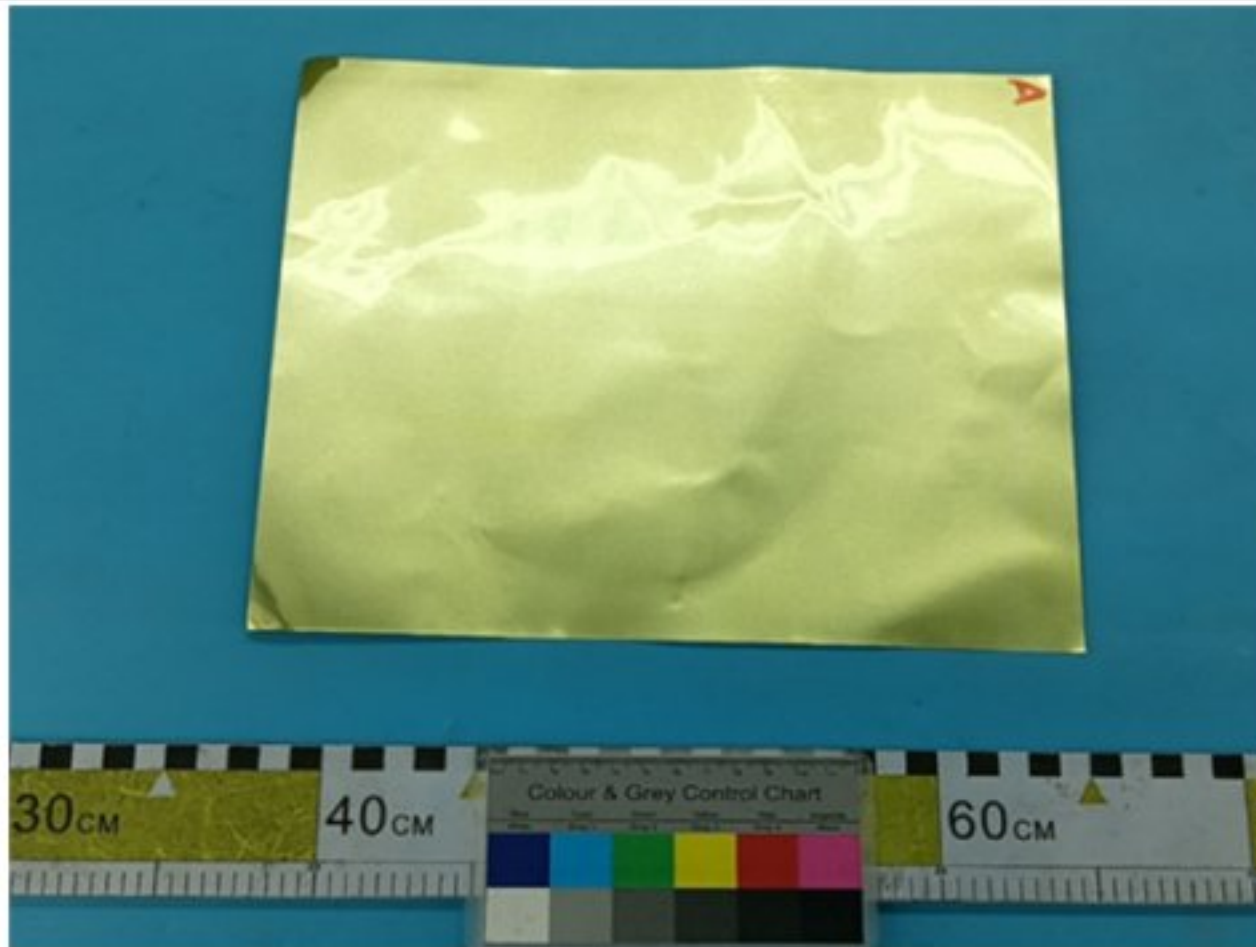
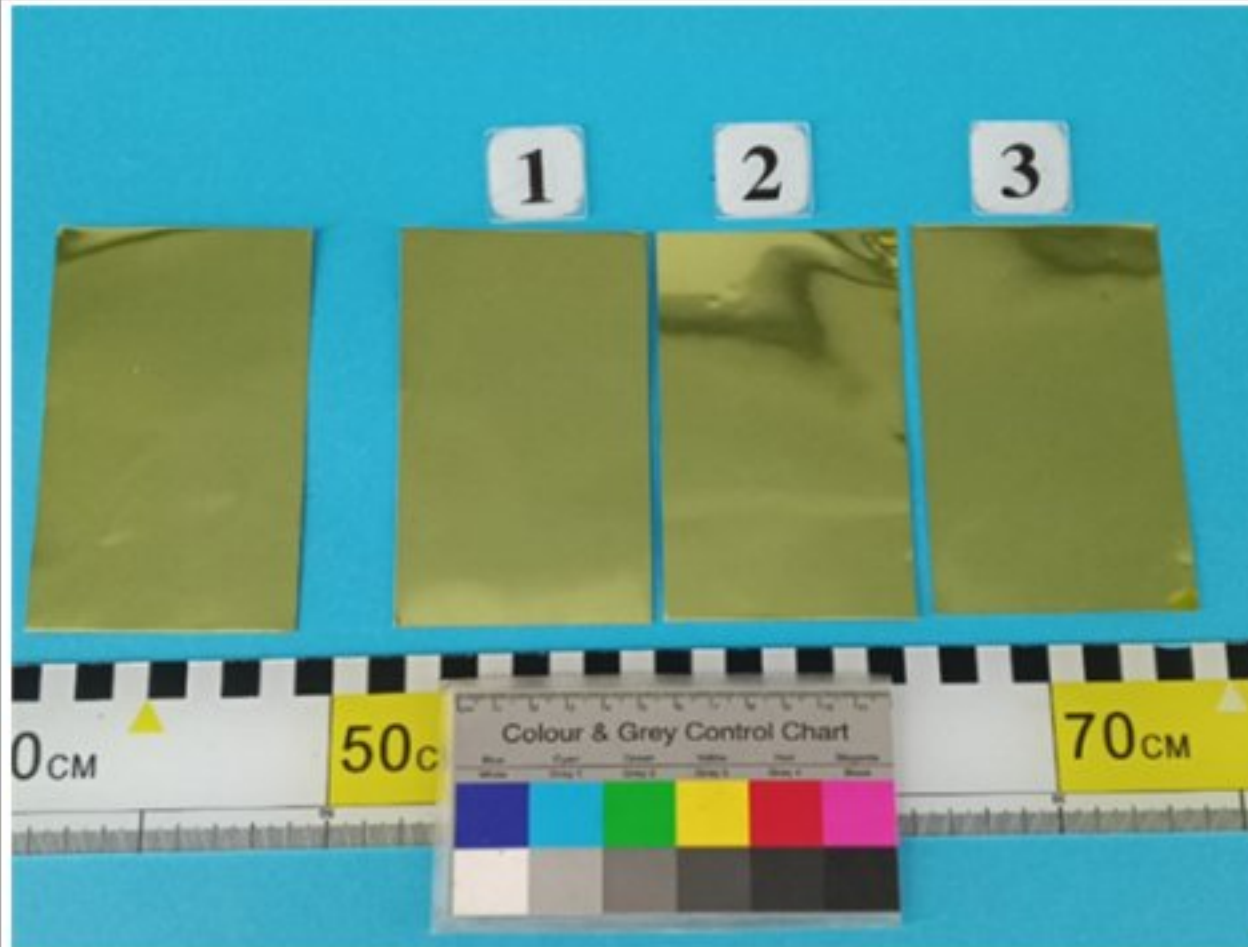
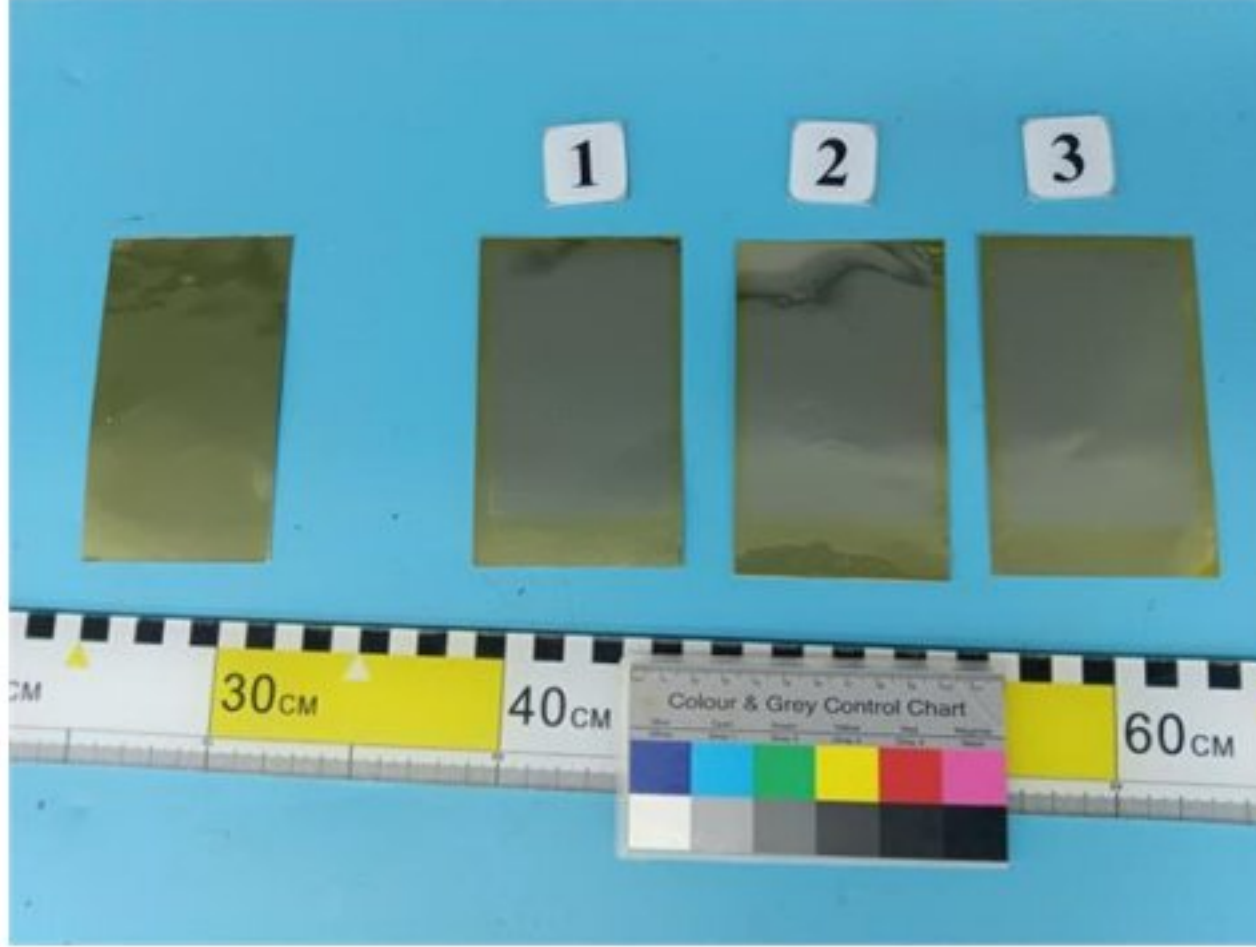

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Test Photo:

	
<p>Original Sample-Sample A</p>	<p>Before Test-Sample A</p> <p>Reference sample Test sample</p>
	
<p>Before Test-Sample A-Light aging</p> <p>Reference sample Test sample</p>	<p>After Test-Sample A-Light aging -Local part</p> <p>Reference sample Test sample</p>

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<p>After Test-Sample A-500h-Salt mist</p> <p>Reference sample Test sample</p>	<p>After Test-Sample A-500h-Salt mist -Local part</p> <p>Reference sample Test sample</p>
<p>After Test-Sample A-1000h-Salt mist</p> <p>Reference sample Test sample</p>	<p>After Test-Sample A-1000h-Salt mist-Local part</p> <p>Reference sample Test sample</p>

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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Specular Gloss Meter	4563	GZMR-AG-E301	2024-09-13	2025-09-12
UV Accelerated Weathering Tester	QUV-Se	GZMR-AG-E057	2024-10-11	2025-10-10
UV Accelerated Weathering Tester	QUV-Se	GZMR-AG-E058	2024-10-11	2025-10-10
Cyclic Corrosion Tester	CCT1100	GZMR-AG-E050	2024-07-11	2025-07-10
Cyclic Corrosion Tester	CCT1100	GZMR-AG-E050	2025-06-17	2026-06-16

Appendix information:

*Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

***** End of report*****



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