

TEST REPORT

No. : GZMR230501346001-1

Date : Jun 16, 2023

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CUSTOMER NAME: TECKWRAP LIMITED
ADDRESS: RM.1902, EASEY COMM. BLDG., 253-261 HENNESSY ROAD,
WANCHAI HONG KONG

Sample Name : PPF290
Others : Supplier : TECKWRAP LIMITED

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. : GZIN2305001545PL01
Date of Receipt : May 22, 2023
Testing Start Date : May 22, 2023
Testing End Date : Jun 15, 2023
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



Cathy Peng
Authorized signatory



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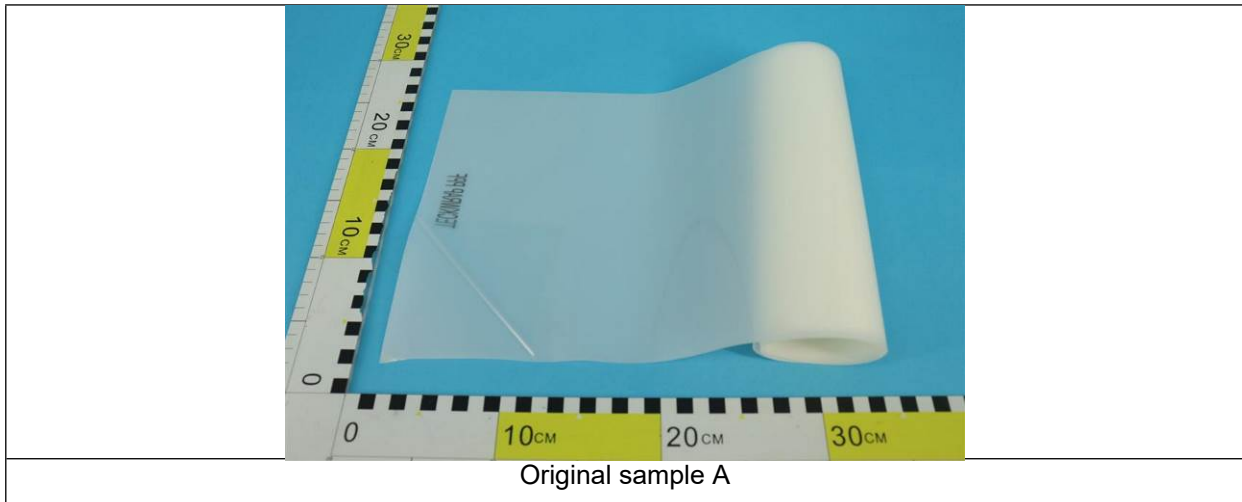
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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Light Ageing Test-UV Exposure	ASTM G154-23 Cycle 1 & ASTM D2244-22	See result	Pass

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

Original Sample Photo:



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Test Item: Light Ageing Test-UV Exposure

Sample Description: Sheet

Test Method: ASTM G154-23 Cycle 1 & ASTM D2244-22

Test Condition:

Exposure cycle:

Lamp type: UVA-340

8h UV at (60±3)°C BPT, 0.89W/(m²·nm)@340nm

4h condensation at (50±3)°C BPT

Exposure duration: 500h

Test Result:

Test Item	Exposure duration	ΔE^*_{ab}		Client's requirement	Conclusion
		SCE	SCI		
Light Ageing Test-UV Exposure	100h	0.3	0.4	/	/
	200h	0.2	0.3	/	/
	300h	0.2	0.3	/	/
	400h	0.2	0.3	/	/
	500h	0.2	0.3	$\Delta E^*_{ab} < 2$	Pass

Note:

1. The results were carried out within 1 hour after above specified durations for the intermediate inspection as well as at the end of the exposure.
2. ΔE^*_{ab} was measured by sphere spectrophotometer under D65 standard light source and with 10° observer, 25 mm aperture. SCE: Exclude specular component reflection, SCI: Include specular component reflection condition.
3. The protected film was ripped off before test.
4. Attach the sample to the aluminum plate for test.



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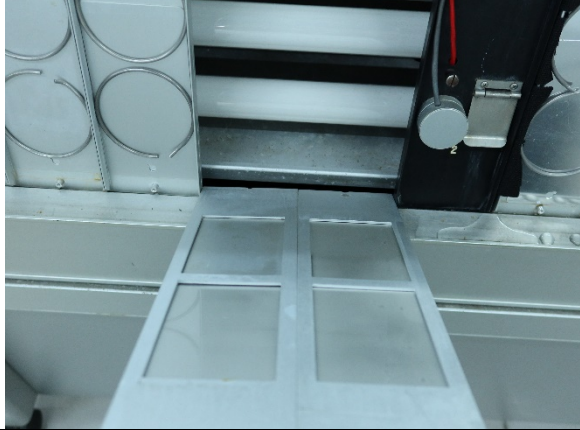
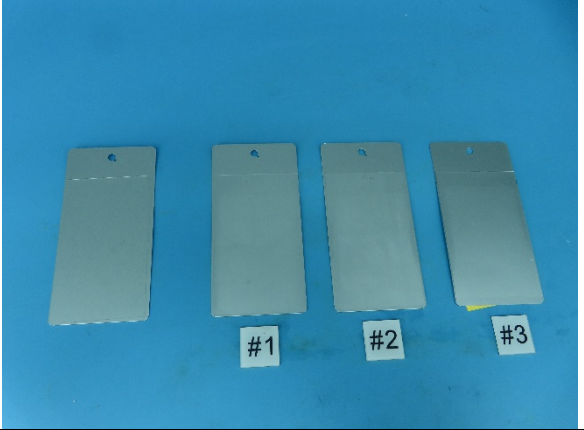
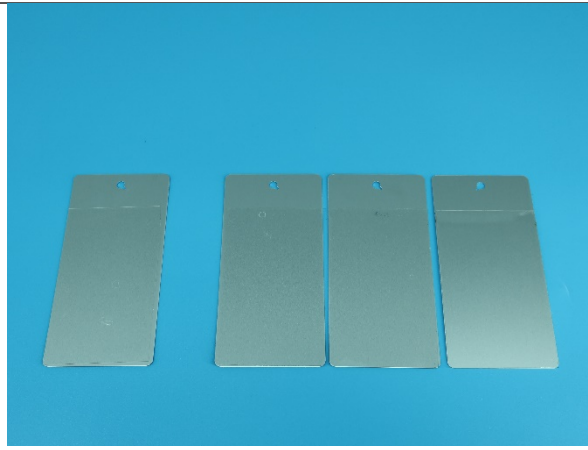
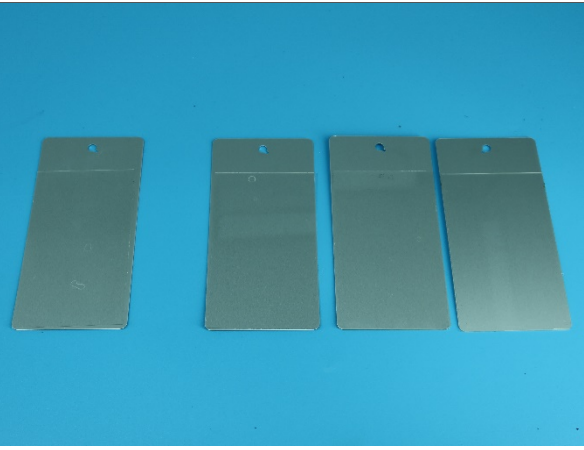
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Test Photo:

		
<p style="text-align: center;">During test</p>	<p style="text-align: center;">Reference sample</p>	<p style="text-align: center;">Tested sample-100h</p>
		
<p style="text-align: center;">Reference sample</p>	<p style="text-align: center;">Tested sample-200h</p>	<p style="text-align: center;">Reference sample</p>
		<p style="text-align: center;">Tested sample-300h</p>



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Reference sample	Tested sample-400h	Reference sample	Tested sample-500h

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
UV Accelerated Weathering Tester	QUV-Se	GZMR-AG-E059	2022-12-15	2023-12-14
Sphere Spectrophotometer	Ci7800	GZMR-AG-E307	2023-02-21	2024-02-20

Appendix information:

1. This test report supersedes test report No. GZMR230501346001, the original test report is void.
2. This report adds conclusion.

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



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