

Test Report

No.SDHL2212100086HI

Date: Mar 20, 2023

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GUANGXI PHOMI MCM CO.,LTD
NO.9, ZHIJIANG ROAD, OVERSEAS CHINESE INVESTMENT ZONE, LAIBIN CITY, GUANGXI, CHINA

Sample Description : ECONIC CLAY COVERINGS 3D-TECH SERIES
Manufacturer : GUANGXI PHOMI MCM CO.,LTD
Country of Origin : CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Dec 01, 2022
Test Performing Date : Dec 05, 2022 to Feb 27, 2023
Test Performed : Selected test(s) as requested by applicant
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch


Peter Zhao
Authorized Signatory



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SDHL 216545

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Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	Light Ageing Test-UV Exposure ASTM G154-16 Cycle1 & ISO 105-A02:1993/Cor.2:2005 & ASTM D2244-21	See results	/
2	Resistance to Freeze-Thaw Cycling ASTM C1026-13(2018) & Client's Requirement	Number of damaged specimens: 0	/
		Total weight loss: 0.34%	
	Absorption and Bulk Specific Gravity ASTM C97/C97M-18	Absorption: 8.02%	/
		Bulk Specific Gravity: 1.892	
	Scrub Resistance With reference to ASTM D2486-17 Method A and client's requirement	No substrate exposed after 4000 cycles	/
For further details, please refer to the following page(s)			

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PART 1:

Test Item: Light Ageing Test-UV Exposure

Sample Description: See photos

Test Method: ASTM G154-16 Cycle1 & ISO 105-A02:1993/Cor.2:2005 & ASTM D2244-21

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: 2000h

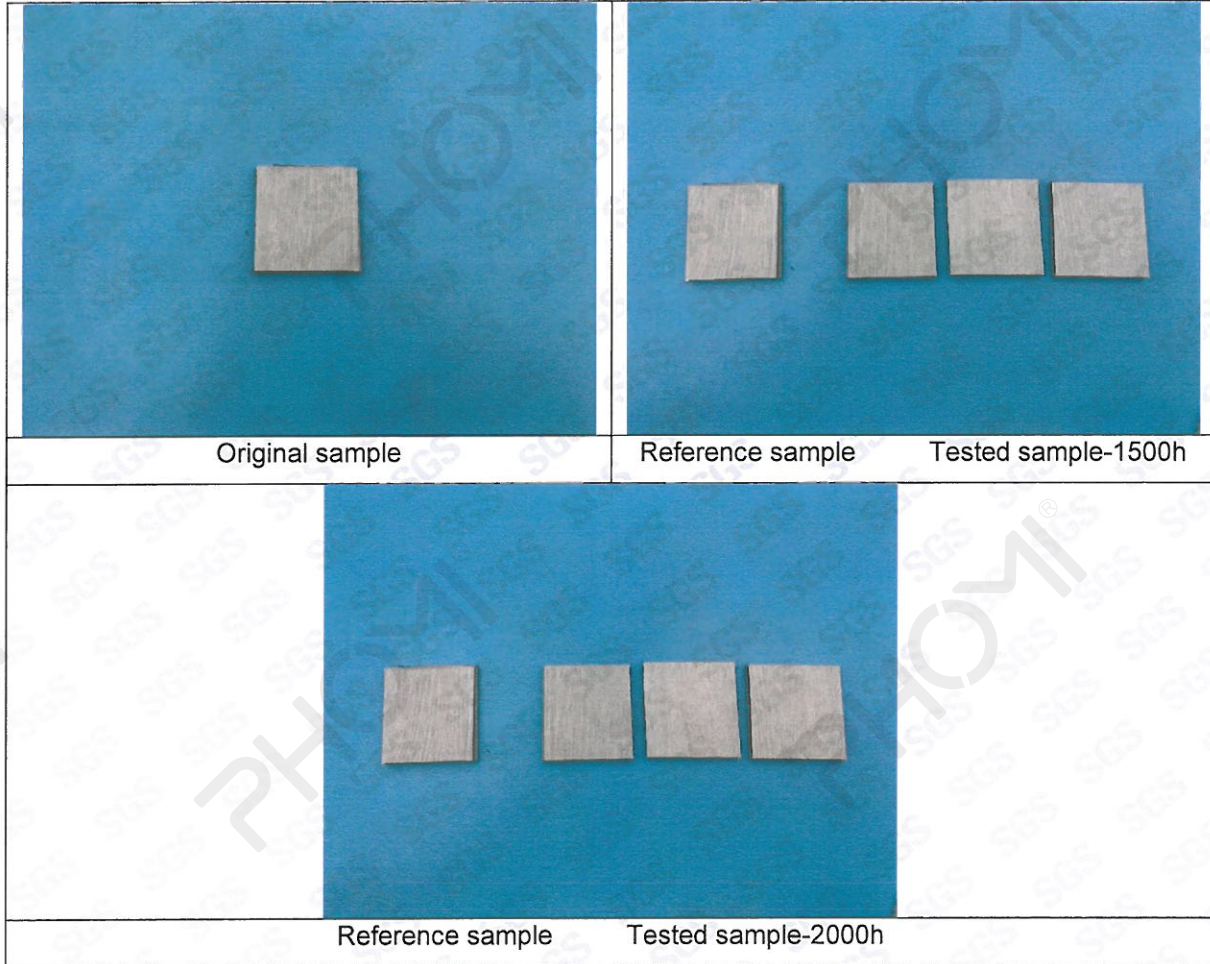
Test Result:

Sample	Exposure duration	Grey scale	Δ E*ab
A	1500h	4-5	1.8
	2000h	4-5	2.2

Note:

1. According to ISO 105-A02:1993/Cor.2:2005, the grey scale was determined under the D65 standard light, with scale 5 as the best and scale 1 as the worst.
2. 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.
3. Δ E*ab was measured by sphere spectrophotometer under D65 standard light source and with 10° observer. The results include specular component reflection condition, 25 mm aperture.

Test Photo:



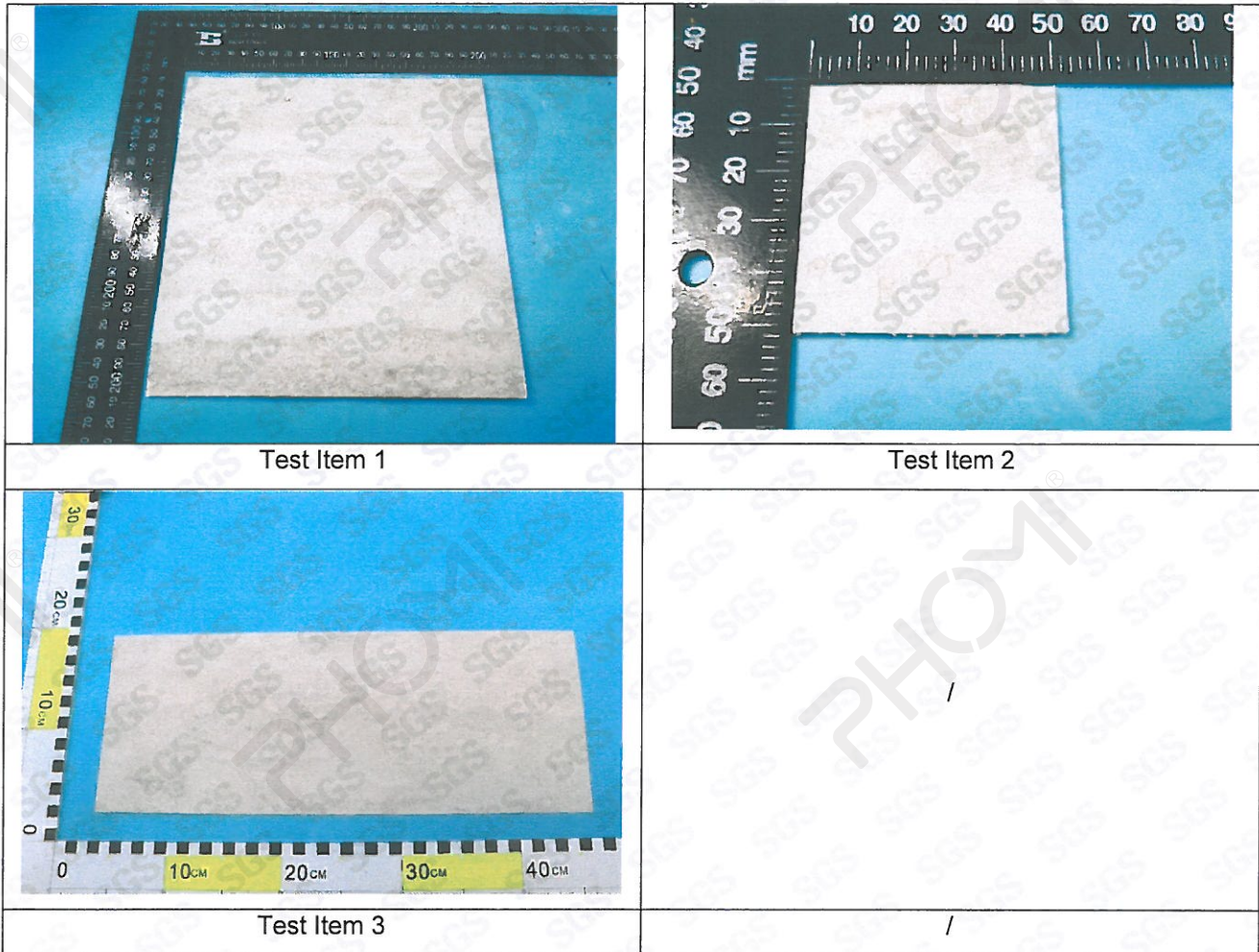
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Part 2 (SGS Ref. No.: GZIN2212007283CM)

Original Sample Photo:



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SDHL 216549

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Test Item 1: Resistance to Freeze-Thaw Cycling

Sample Description: See photo

Test Method: ASTM C1026-13(2018) & Client's Requirement

Test Condition:

Specimens: 200mm×200mm×1.96mm

Condition: ①Dry in an oven at 150℃ for 24h→②Cool down in a desiccator→③put in boiling deionized water for 5 h, soak for 24h, then remove from water→④-3℃, 1h→⑤5℃, 1h

④-⑤as a cycle, 20 cycles in total→⑥Dry in an oven at 150℃ for 24h.

Test Result:

Test Item	Test Result
Number of damaged specimens	0
Total weight loss	0.34%

Test Item 2: Absorption and Bulk Specific Gravity

Sample Description: See photo

Test Method: ASTM C97/C97M-18

Test Condition:

Specimens: 50mm×50mm×1.96mm

Condition: Dry in an oven at 60℃ for 48h → Cool them to room temperature in a desiccator →

Immerse in distilled water at 22℃ for 48h

Test Result:

Test Item	Test Result
Absorption	8.02%
Bulk Specific Gravity	1.892

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Test Item 3: Scrub Resistance

Sample Description: Sheet

Test Method: With reference to ASTM D2486-17 Method A and client's requirement

Test Condition:

Brush: Nylon Bristle Brush

Abrasive Scrub Medium: Leneta standardized scrub medium SC-2

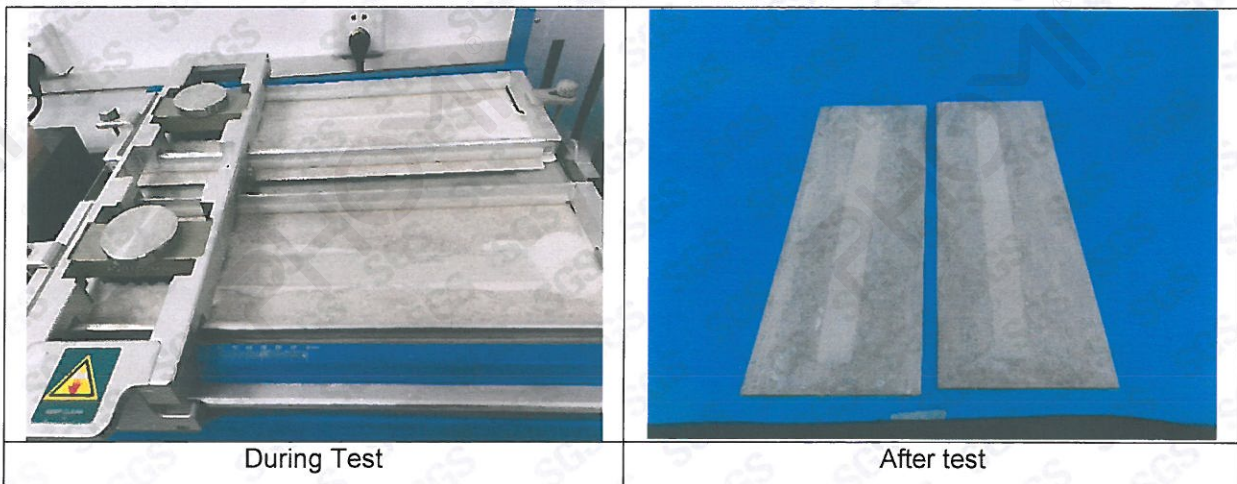
Load: (454±10) g

Speed: (37±1) cycles/min

Test Result:

Test Item	Result
Scrub Resistance	No substrate exposed after 4000 cycles

Test Photo:



Remark: Part 2 test was subcontracted to SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.

End of Report



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