

Test Report

ASH25-0045102-01

Date: 2025-06-19

Client Name: An Cuong High-tech Building materials JSC

Client Address: An Phat industrial park, KM47, National road 5, Viet Hoa ward, Hai Duong City, Hai Duong province

Sample Name: SPC flooring sample

Sample Batch No.: /

Production Date: /

Manufacturer: /

Sample other information: /

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS reference No.: TJHL2506004553SD

Date of Sample Received: 2025-06-11

Testing Period: 2025-06-11 ~ 2025-06-19

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).



SGS Approved Signatory

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Page 1 of 3

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ASH25-0045102-01

Verification:
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Date: 2025-06-19

Sample Description:

Sample No.	SGS Sample ID	Description
1	ASH25-0045102-0001	sample in bag

Test Result(s):

Test Requested: Selected test(s) as requested by applicant:Antimicrobial activity test

Test Method: ISO 22196:2011 Measurement of antibacterial activity on plastics and other non-porous surfaces

ASH25-0045102-0001

Test organism(s)	Escherichia coli ATCC 8739
Concentration of bacteria (CFU/mL)	5.0×10^5
Volume of test inoculum (mL)	0.4
U_0	4.08
U_t	6.15
A_t	4.12
B (CFU/cm ²)	1.4×10^6
C (CFU/cm ²)	1.3×10^4
R (Antibacterial activity)	2.0
*The antibacterial activity rate (%)	99.1

Test organism(s)	Pseudomonas aeruginosa ATCC 9027
Concentration of bacteria (CFU/mL)	3.3×10^5
Volume of test inoculum (mL)	0.4
U_0	3.85
U_t	5.96
A_t	3.98
B (CFU/cm ²)	9.0×10^5
C (CFU/cm ²)	9.7×10^3
R (Antibacterial activity)	2.0
*The antibacterial activity rate (%)	98.9

Test organism(s)	Staphylococcus aureus ATCC 6538P
Concentration of bacteria (CFU/mL)	3.5×10^5
Volume of test inoculum (mL)	0.4
U_0	3.89
U_t	5.96
A_t	3.85
B (CFU/cm ²)	9.1×10^5
C (CFU/cm ²)	7.1×10^3
R (Antibacterial activity)	2.1
*The antibacterial activity rate (%)	99.2

Notes:

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Page 2 of 3



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1. The untreated test specimens is plastic film without antimicrobial activity, provided by SGS laboratory.
2. U_0 : the average of the common logarithm of the number of viable bacteria(CFU/cm²) recovered from the untreated test specimens immediately after inoculation.
3. U_t : the average of the common logarithm of the number of viable bacteria(CFU/cm²) recovered from the untreated test specimens after 24 h.
4. A_t : the average of the common logarithm of the number of viable bacteria(CFU/cm²) recovered from the treated test specimens after 24 h.
5. * The calculation formula of the antibacterial activity rate is $\left[\frac{(B-C)}{B} \right] \times 100\%$;
 B: arithmetic average of the numbers of bacteria obtained from the untreated test specimens after 24 h incubation(CFU/cm²);
 C: arithmetic average of the numbers of bacteria obtained from the treated test specimens after 24 h incubation(CFU/cm²).
6. Pre-treatment: The sample has been radiated by UV for 30 minutes before the testing.
7. Test surface: Front surface.

Sample Photo:



SGS authenticate the photo on original report only

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Page 3 of 3



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