

Test Report

ASH25-0065285-01

Date: 2025-08-18

Client Name: Altena New Material Technology (Shandong) Co., Ltd.

Client Address: No. 999, Qihang Road, Economic Development Zone, Tai'erzhuang District, Zaozhuang, Shandong, China

Sample Name: Flooring

Sample Batch No.: /

Production Date: /

Manufacturer: Altena New Material Technology (Shandong) Co., Ltd.

Supplier Name: Altena New Material Technology (Shandong) Co., Ltd.

Sample other information: Country of Origin : China ,Request Age Grading: 30 years

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.: CZHL2507008198HI

Date of Sample Received: 2025-08-08

Testing Period: 2025-08-08 ~ 2025-08-18

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

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



SGS Approved Signatory

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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Scan to see the report



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Verification:
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Testing Center Address: Xuhui District Laboratory

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Sample Description:

Sample No.	SGS Sample ID	Description
1	ASH25-0065285-0001	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

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Test organism(s)	Candida albicans ATCC10231
Concentration of bacteria (CFU/mL)	4.3×10^5
Volume of test inoculum (mL)	0.4
U_0	3.99
U_t	4.99
A_t	4.78
B (CFU/cm ²)	9.7×10^4
C (CFU/cm ²)	6.0×10^4
R (Antibacterial activity)	0.2
*The antibacterial activity rate (%)	38.1

Test organism(s)	Escherichia coli ATCC 8739
Concentration of bacteria (CFU/mL)	4.8×10^5
Volume of test inoculum (mL)	0.4
U_0	4.05
U_t	6.33
A_t	6.11
B (CFU/cm ²)	2.2×10^6
C (CFU/cm ²)	1.3×10^6
R (Antibacterial activity)	0.2
*The antibacterial activity rate (%)	40.9

Test organism(s)	Staphylococcus aureus ATCC 6538P
Concentration of bacteria (CFU/mL)	5.5×10^5
Volume of test inoculum (mL)	0.4
U_0	4.11
U_t	5.37
A_t	4.76
B (CFU/cm ²)	2.4×10^5
C (CFU/cm ²)	5.8×10^4
R (Antibacterial activity)	0.6
*The antibacterial activity rate (%)	75.8

Notes:

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 Testing Center for Antimicrobial Activity Laboratory

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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 surface of test specimen was wiped with 70% ethanol, rinsed with sterile water and let it air-dry.
7. Test surface: Front surface(wood grain surface).

Sample Photo:



SGS authenticate the photo on original report only

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*** End ***

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