



中国认可
国际互认
检测
TESTING
CNAS L0599

Test Report

ASH24-0016660-03

Date: 2024-03-29

Client Name: HUZHOU JIAFU MACROMOLECULAR MATERIAL CO.,LTD.

Client Address: Westside of Dingquan Bridge,Lianshi Town,Nanxun District,Huzhou City,Zhejiang Province,China.

Sample Name: UV antibacterial coating

Sample Batch No.: /

Production Date: /

Manufacturer: /

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.

Date of Sample Received: 2024-03-21

Testing Period: 2024-03-21 ~ 2024-03-29

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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ASH24-0016660-03

Verification:
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Date: 2024-03-29

Sample Description:

Sample No.	SGS Sample ID	Description
1	ASH24-0016660-0001	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

ASH24-0016660-0001

Test organism(s)	Klebsiella pneumoniae ATCC 4352
Concentration of bacteria (CFU/mL)	7.8×10^5
Volume of test inoculum (mL)	0.4
U_0	4.26
U_t	5.96
A_t	-0.20
B (CFU/cm ²)	9.2×10^5
C (CFU/cm ²)	<0.63
R	6.2
*The antibacterial activity rate (%)	>99.9

Test organism(s)	Pseudomonas aeruginosa ATCC 15442
Concentration of bacteria (CFU/mL)	3.5×10^5
Volume of test inoculum (mL)	0.4
U_0	3.89
U_t	5.85
A_t	-0.20
B (CFU/cm ²)	7.1×10^5
C (CFU/cm ²)	<0.63
R	6.1
*The antibacterial activity rate (%)	>99.9

Notes:

- The untreated test specimens is plastic film without antimicrobial activity, provided by SGS laboratory.
- 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.
- 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.
- 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.
- R: the value of antimicrobial activity, $R=U_0-A_t$.
- * The calculation formula of the antibacterial activity rate is $[(B-C)/B] \times 100\%$;
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

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incubation(CFU/cm²).

7.Pre-treatment: The sample has been radiated by UV for 30 minutes.

8.Test side: The brown side (the side with a wear-resistant layer).

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Sample Photo:



SGS authenticate the photo on original report only

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Chinese shall prevail in this report.

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