



中国认可  
国际互认  
检测  
TESTING  
CNAS L0167

Test Report

GZF20-016965-02

Date: 25 Aug 2020

Sample Name: Nano bactericidal coating sheet  
 Manufacturer: /  
 Sample Batch No.: /  
 Production Date: /

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.: CP20-042582  
 Date of Sample Received: 17 Aug 2020  
 Testing Period: 17 Aug 2020 - 25 Aug 2020  
 Test Requested: Selected test(s) as requested by client.  
 Test Method: Please refer to next page(s).  
 Test Result(s): Please refer to next page(s).

The current test report is the English version of report number GZF20-016965-01. In case of any discrepancy between Chinese version and English version, the Chinese version shall prevail.  
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SGS Authorized Signature

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## Test Report

GZF20-016965-02

Date: 25 Aug 2020

### Sample Description:

Specimen No.	SGS Sample ID	Description
1	GZF20-016965.001	Block sample

### Test Result(s):

Test Requested: Test of antimicrobial activity

Test Method: GB/T 31402-2015/ISO 22196:2007(IDT) Plastics-Measurement of antibacterial activity on plastic surfaces

### GZF20-016965.001

Test organism	Staphylococcus aureus ATCC 6538P
Concentration of bacteria (CFU/mL)	1.9x10 <sup>6</sup>
Volume of test inoculum (mL)	0.2
U <sub>0</sub>	4.35
U <sub>t</sub>	5.94
A <sub>t</sub>	-0.20
B (CFU/cm <sup>2</sup> )	8.7x10 <sup>5</sup>
C (CFU/cm <sup>2</sup> )	0.63
R	6.1
*Antibacterial activity (%)	>99.9

### Notes:

- The untreated sample is plastic film without antimicrobial activity, provided by SGS laboratory.
- U<sub>0</sub>: the average log value of bacteria number that recovered from the untreated sample immediately after inoculation (CFU/cm<sup>2</sup>).
- U<sub>t</sub>: the average log value of bacteria number that recovered from the untreated sample after "24 h" inoculation (CFU/cm<sup>2</sup>).
- A<sub>t</sub>: the average log value of bacteria number that recovered from the treated sample after "24 h" inoculation (CFU/cm<sup>2</sup>).
- R: the value of antimicrobial activity, R=U<sub>t</sub>-A<sub>t</sub>.
- \*The calculation formula of the antibacterial activity rate is  $[(B-C)/B] * 100\%$ ;
- B: arithmetic average of the numbers of bacteria obtained from untreated samples after 24 h incubation (CFU/cm<sup>2</sup>);
- C: arithmetic average of the numbers of bacteria obtained from treated samples after 24 h incubation (CFU/cm<sup>2</sup>).
- Pre-treatment: UV sterilization of both sides for 15min.



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Sample photo:



SGS authenticate the photo on original report only

\*\*\* End \*\*\*



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