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检测  
TESTING  
CNAS L0599

## Test Report

ASH23-0030505-01

Date: 2023-08-02

Client Name: Wenling Jianbo plastic products factory  
 Client Address: Daxi town, wenling city, zhejiang province  
 Sample Name: Cutting board  
 Sample Batch No.: /  
 Production Date: July 20. 2023  
 Manufacturer: Taizhou bingxin new material Co.LTD.

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: 2023-07-25  
 Testing Period: 2023-07-25 ~ 2023-08-02  
 Test Method(s): Please refer to next page(s).  
 Test Results(s): Please refer to next page(s).



SGS Approved Signatory

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scan to see the report



ASH23-0030505-01



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**Sample Description:**

Sample No.	SGS Sample ID	Description
1	ASH23-0030505-0001	sample in bag

**Test Result(s):**

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

Test Method: GB/T 31402-2015 Plastics-Measurement of antibacterial activity on plastic surfaces

**ASH23-0030505-0001**

Test organism(s)	Escherichia coli ATCC 8739	Staphylococcus aureus ATCC 6538P
Concentration of bacteria (CFU/mL)	3.5×10 <sup>5</sup>	5.2×10 <sup>5</sup>
Volume of test inoculum (mL)	0.4	0.4
U <sub>0</sub>	3.91	4.09
U <sub>t</sub>	6.20	5.80
A <sub>t</sub>	-0.20	-0.20
B (CFU/cm <sup>2</sup> )	1.6×10 <sup>6</sup>	6.2×10 <sup>5</sup>
C (CFU/cm <sup>2</sup> )	<0.63	<0.63
R	6.4	6.0
*The antibacterial activity rate (%)	>99.9	>99.9

**Notes:**

- 1.GB/T 31402-2015 use translation method is equivalent to ISO 22196:2007 Plastics - Measurement of antibacterial activity on plastics surfaces.
- 2.The untreated sample is plastic film without antimicrobial activity, provided by SGS laboratory.
- 3.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>).
- 4.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>).
- 5.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>).
- 6.R: the value of antimicrobial activity, R=U<sub>t</sub>-A<sub>t</sub>.
7. \*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>).
- 8.Pre-treatment: The sample has been radiated by UV for 30 minutes before the testing.



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## Test Report

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Date: 2023-08-02

Sample Photo:



SGS authenticate the photo on original report only

### Attention:

Chinese shall prevail in this report.

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