







**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.

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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.

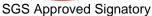
Date of Sample Received: 2023-07-25

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).







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## **Test Report** ASH23-0030505-01 **Date**: 2023-08-02

**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

7.01120 000000 0001				
Test organism(s)	Escherichia coli ATCC 8739	Staphylococcus aureus ATCC 6538P		
Concentration of bacteria (CFU/mL)	3.5×10⁵	5.2×10 <sup>5</sup>		
Volume of test inoculum (mL)	0.4	0.4		
$U_0$	3.91	4.09		
Ut	6.20	5.80		
At	-0.20	-0.20		
B (CFU/cm <sup>2</sup> )	1.6×10 <sup>6</sup>	6.2×10⁵		
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.Ut: the average log value of bacteria number that recovered from the untreated sample after "24 h" inoculation (CFU/cm²).
- 5.At: the average log value of bacteria number that recovered from the treated sample after "24 h" inoculation (CFU/cm²).
- 6.R: the value of antimicrobial activity, R=Ut-At.
- 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/cm²);
- C: arithmetic average of the numbers of bacteria obtained from treated samples after 24 h incubation (CFU/cm²).
- 8. Pre-treatment: The sample has been radiated by UV for 30 minutes before the testing.





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Sample Photo:



SGS authenticate the photo on original report only

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