



中国认可
检测
TESTING
CNAS L0599

Test Report

ASH20-017412-02

Date: 19 May 2020

Client Name: Hao Bro PVC(Hebei Brother Hao Plastics Products Co.,Ltd.)
Client Address: DEPARTMENT STORE SECTION,JINBAO ROAD SOUTH SIDE,DACHENG COUNTY,LANGFANG CITY,HEBEI PROVINCE,CHINA.

Sample Name: Anti-Bacteria / Mold-Resistance PVC Strip(Sheet)
Manufacturer: Hao Bro PVC(Hebei Brother Hao Plastics Products Co.,Ltd.)
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. : TJHL2004001637SD
Date of Sample Received : 20 Apr 2020
Testing Period : 20 Apr 2020 - 19 May 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).

Chinese shall prevail in this report.

Unless otherwise stated the results shown in this test report refer only to the items tested. This document cannot be used for publicity, without prior written approval of the SGS.



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ASH20-017412-02

SGS Authorized Signature

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Testing Center Agency and PECC Laboratory

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Test Report

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Date: 19 May 2020

Sample Description :

Specimen No.	SGS Sample ID	Description
1	ASH20-017412.001	sample in bag

Test Result(s) :

Test Requested : Test of antimicrobial activity

Test Method : ISO 22196:2011 Measurement of antibacterial activity on plastics and other non-porous surfaces

ASH20-017412-02.001

Test organism	Escherichia coli ATCC 8739	Staphylococcus aureus ATCC 6538P
Concentration of bacteria (CFU/mL)	7.0x10 ⁵	7.6x10 ⁵
Volume of test inoculum (mL)	0.4	0.4
U ₀	4.23	4.86
U _t	5.52	5.92
A _t	3.44	3.91
R	2.1	2.0
*The antibacterial activity rate (%)	99.2	99.0

Notes :

- 1.The control sample is plastic film without antimicrobial activity, provided by SGS laboratory.
- 2.U₀: 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.R: the value of antimicrobial activity,R=U_t-A_t.
- 6.* The calculation formula of the antibacterial activity rate is provided by the client, the calculation formula is **【(B-C)/B】 *100%**;
B: arithmetic average of the numbers of bacteria obtained from control samples after 24 h incubation(CFU/cm²);
C: arithmetic average of the numbers of bacteria obtained from samples after 24 h incubation(CFU/cm²).
- 7.The sample is not processed and tested directly.

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Sample photo:



SGS authenticate the photo on original report only

*** End ***

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