

XIAMEN BETTER SILICONE RUBBER CO., LTD
2F, NO. 165, TONG'AN PARK, INDUSTRY CLUSTER ZONE, TONG'AN DISTRICT, XIAMEN CITY, CHINA

Sample Description : ANTIMICROBIAL SILICONE KEYPAD COVER
Style No. : ANTIMICROBIAL SILICONE KEYPAD COVER /P400

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : XMF20 006875.001
Sample Receiving Date : Oct 10, 2020
Test Performing Date : Oct 10, 2020 to Oct 30, 2020
Test Performed : Selected test(s) as requested by applicant
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch

Beck

Beck Hong
Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Center Hardlines

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Sample Description :

Specimen No.	SGS Sample ID	Description
1	GZF20-022194.001	Block sample

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

GZF20-022194.001

Test organism(s)	Escherichia coli ATCC 8739	Staphylococcus aureus ATCC 6538P
Concentration of bacteria (cells/mL)	6.4x10 ⁵	7.2x10 ⁵
Volume of test inoculum (mL)	0.2	0.2
U ₀	3.90	3.97
U _t	5.35	5.71
A _t	-0.20	-0.20
B (cells/cm ²)	2.3x10 ⁵	5.1x10 ⁵
C (cells/cm ²)	0.63	0.63
R	5.6	5.9
*The antibacterial activity rate (%)	>99.9	>99.9

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(cells/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(cells/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(cells/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 $[(B-C)/B] * 100\%$;
B: arithmetic average of the numbers of bacteria obtained from control samples after 24 h incubation(cells/cm²);
C: arithmetic average of the numbers of bacteria obtained from samples after 24 h incubation(cells/cm²).
- 7.Pre-treatment: The surface of test specimen was wiped with 70% ethanol, rinsed with sterile water and let it air-dry.

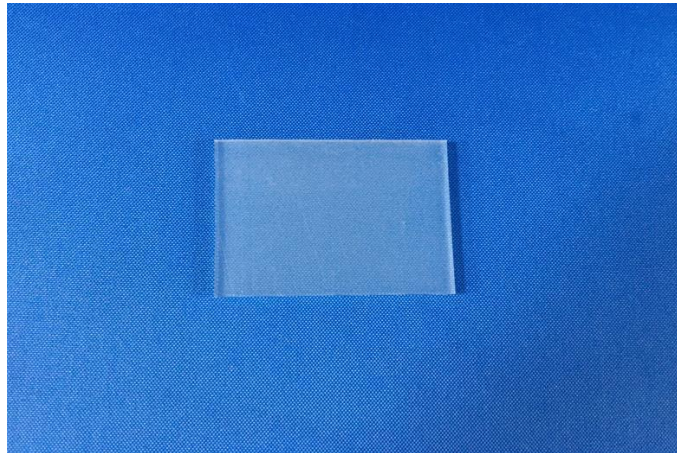


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Remark: According to client's statements the tested samples are used in their products shown in the product photos.

Sample photo(s):



GZF20-022194.001



Product photo

The testing report/certificate only refers to the sample(s) tested.

End of Report

