



Test Report

GZF20-016969-03

Date: 25 Aug 2020

Client Name: DZS EUROPE s.r.l

Client Address: Kaixin Industrial Park, Yanhe Road, Sanhe Economy develop district, Huiyang, Huizhou City, Guangdong, China.

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. : CP20-042588

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).

This test report has been drafted in English and maybe translated into other languages, The English version shall prevail.

Unless otherwise stated the results shown in this test report refer only to the items tested, and for clients internal use only, not to the society has the proof function. This document cannot be used for publicity, without prior written approval of the SGS.



scan to see the report



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SGS Authorized Signature

SGS-CSTC Standards Technical Services Co.,Ltd. Guangzhou Branch



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Sample Description :

Specimen No.	SGS Sample ID	Description
1	GZF20-016969.001	Block sample

Test Result(s) :

Test Requested : Test of antimicrobial activity

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

GZF20-016969.001

Test organism	Pseudomonas aeruginosa ATCC 9027
Concentration of bacteria (CFU/mL)	7.3x10 ⁵
Volume of test inoculum (mL)	0.2
U ₀	3.92
U _t	4.91
A _t	2.15
B (CFU/cm ²)	8.1x10 ⁴
C (CFU/cm ²)	1.4x10 ²
R	2.8
*Antibacterial activity (%)	99.8

Notes :

- 1.The untreated sample is plastic film without antimicrobial activity, provided by SGS laboratory.
- 2.U₀: the average log value of bacteria number that recovered from the untreated sample immediately after inoculation (CFU/cm²).
- 3.U_t: the average log value of bacteria number that recovered from the untreated sample after “24 h” inoculation (CFU/cm²).
- 4.A_t: the average log value of bacteria number that recovered from the treated sample after “24 h” inoculation (CFU/cm²).
- 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 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).
- 7.UV sterilization of both sides for 15min.

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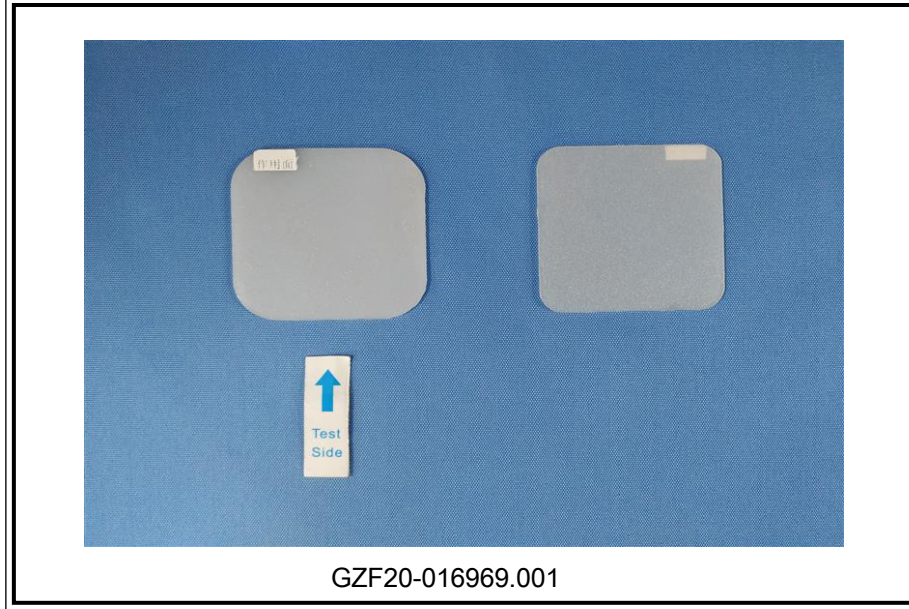


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Sample photo:



SGS authenticate the photo on original report only

*** End ***



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