

Test Report No.: 0244238591a 001

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Client: BenQ Corporation
16 Jihu Road, Neihu, Taipei 114, Taiwan

Test item(s): Interactive Flat Panel
CM*****,CP*****,RP*****,IL*****,RE*****,RM*****(*could be 0 to 9, A-Z, or Null,
Means different client code or sale region, no impact on Products' safety and EMC
characteristics)

Sample Receiving date: 2020-05-19

Delivery condition: Apparent good, Samples tested as received

Testing Period: 2020-05-19 to 2020-05-27

Test specification:

JIS Z 2801:2010
Antibacterial products-Test for Antibacterial Activity and Efficacy

Test result:

Please refer to page 3

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



2020-06-01

Eason Lu / Supervisor

Date

Name/Position

*Test result is drawn according to the kind and extent of tests performed.
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be
duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

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Material list

Item: Material

Material No.	Material	Color	Location
M001	Glass + coating	Transparent	Refer to photo

Antibacterial Activity and Efficacy Testing

Test method:

JIS Z 2801:2010 Antibacterial products-Test for Antibacterial Activity and Efficacy

Test Result

Test No.: T001					
Material No.: M001					
Organisms - Bacteria	Control specimen (Contact time: Initial, "A")	Control specimen (Contact time: 24hrs, "B")	Tested specimen (Contact time: 24hours, "C")	Antibacterial activity(1*)	Antibacterial effectiveness(2*)
<i>Escherichia coli</i> (ATCC No. 8739)	4.1	6.0	<0.8	>5.2	Yes
<i>Staphylococcus aureus</i> (ATCC No. 6538P)	3.9	6.1	<0.8	>5.3	Yes

Abbreviation: < denotes less than
> denotes more than

Where

- A: Average of the number of viable cells of bacteria immediately after inoculation on control specimen.
 B: Average of the number of viable cells of bacteria on control specimen after 24hrs incubation period.
 C: Average of the number of viable cells of bacteria on the antimicrobial test specimen after 24hrs incubation period.

Remark(s):

- 1*. Antibacterial activity calculated from (Log B- log C).
- 2*. The value of antibacterial activity more than 2.0 indicates the tested product with antibacterial effectiveness.
- 3*. The result should be based on the submitted sample only, the nature and processing of sample should not be taken into account.

END

Sample Photo:



-END-

Test Report No.: 244258270a1 001
测试报告号码:

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Client: BenQ Corporation
客户名称:

Test item(s): Interactive flat panel
测试样品: CM*****,CP*****,RP*****,IL*****,RE*****,RM*****(*could be 0 to 9, A-Z, or Null,
Means different client code or sale region, no impact on Products' safety and EMC characteristics)

Sample Receiving date: 2020-08-10
收样日期:

Delivery condition: Apparent good, Samples tested as received
交货状态: 接收样品测试时, 外观良好

Testing Period: 2020-08-10 to 2020-08-19
测试周期:

Test specification/测试要求:
ISO 22196-2011
Antimicrobial Activity and Efficacy Testing
抗菌性实验方法和抗菌效果的测定

Test result/测试结果:
Please refer to page 3/
请参考第三页

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



2020-08-20
Date

Eason Lu / Supervisor
Name/Position

测试结果依据所进行的测试种类和范畴出具。该测试报告只对相关测试样品负责。未经测试中心许可不可复制报告, 亦不能在该产品或者类似产品上使用任何安全标识。 Test result is drawn according to the kind and extent of tests performed. This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

测试报告号码: 244258270a1 001
Test Report No.:

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Material list/材料清单:

No./材料编号	Material/材料	Color/颜色	Location/位置
M001	Glass	Transparent	refer to photo

Test method 实验方法:
ISO 22196: 2011 Measurement of antibacterial activity on plastics and other non-porous surfaces
 塑料及其它非渗透性制品表面抗菌性的测定

Test Result 测试结果

Test No.: 测试号: T001						
Material No.: 材料号: M001						
Organisms – Bacteria 测试菌种	Control specimen 对照样 (Contact time 接触时间: Initial 立即, “A”)	Control specimen 对照样 (Contact time 接触时间: 24hrs 24 小时, “B”)	Tested specimen 测试样品 (Contact time 接触时间: 24hours, “C”)	Antibacterial activity 抗菌活性(1*)	%Reduction 减少率	Antibacterial effectiveness 抗菌有效性(2*)
<i>Pseudomonas aeruginosa</i> 铜绿假单胞菌 (ATCC9027)	3.8	5.9	3.0	2.9	99.9%	Yes
<i>Salmonella</i> 鼠伤寒沙门氏菌 (ATCC14028)	3.8	5.6	2.8	2.8	99.9%	Yes
<i>Klebsiella pneumonia</i> 肺炎克雷伯菌 (ATCC4352)	4.0	5.9	1.9	4.0	99.9%	Yes

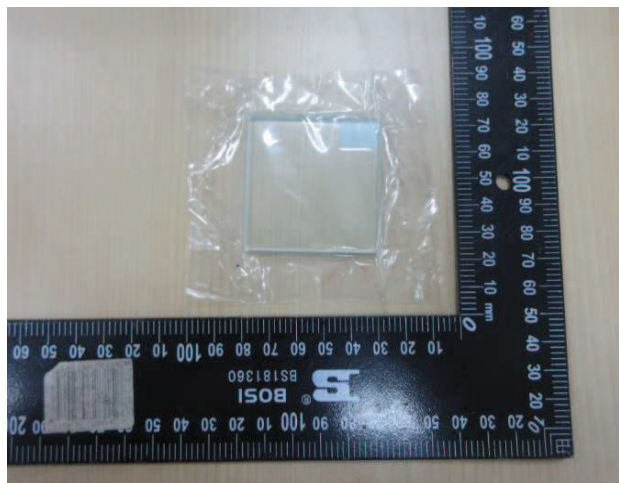
缩写 Abbreviation: < denotes less than 小于
> denotes more than 大于

- A: 接种后立即计数的对照样的菌落平均数
 Average of the number of viable cells of bacteria immediately after inoculation on control specimen.
- B: 接种后 24 小时后计数的对照样的菌落平均数
 Average of the number of viable cells of bacteria on control specimen after 24hrs incubation period.
- C: 接种后 24 小时后计数的样品的菌落平均数
 Average of the number of viable cells of bacteria on the antimicrobial test specimen after 24hrs incubation period.

Remark(s) 备注:

- 1*. Antibacterial activity calculated from (Log B- log C)
抗菌活性的测试计算 from (Log B- log C).
- 2*. The value of antibacterial activity more than 2.0 indicates the tested product with antibacterial effectiveness
抗菌活性大于 2，表明该抗菌产品具有一定的抗菌效果
- 3*. The result should be based on the submitted sample only, the nature and processing of sample should
Not be taken into account.
本次结果仅建立在该样品的基础上，样品的性质和处理方式不予考虑

样品照片/Sample Photo:



-结束/END-