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ISHIZUKA GLASS CO., LTD.  
Advanced Glass Company



**REPORT ON ANTI-MICROBIAL TEST RESULT**

**1. Sample: name ZERTIFIKAT+ ; code V8140**

Acrylic Based Water Borne Coated Plates

No.	Sample
1.	Blank
2.	0.25%
3.	0.5%

**2. Outline of test:**

The test was executed in according with "JIS Z 2801."

<Bacteria used for test>

*Escherichiacoli* NBRC 3972  
*Staphylococcus aureus* NBRC 12732

**3. Test result:**

Table 1. Test result of Anti-microbial effect against *Escherichia coli*

Sample	Number of living bacteria		Antimicrobial activity value against blank	Reduction %
	At beginning	After 24 hours		
1. Blank	$2.3 \times 10^5$	$5.5 \times 10^6$	-----	-----
2. 0.25%	$2.3 \times 10^5$	$<1 \times 10^2$	>4.7	>99.998
3. 0.5%	$2.3 \times 10^5$	$<1 \times 10^2$	>4.7	>99.998
Control (Film only)	$2.3 \times 10^5$	$5.4 \times 10^7$		

Table 2. Test result of Anti-microbial effect against *Staphylococcus aureus*

Sample	Number of living bacteria		Antimicrobial activity value against blank	Reduction %
	At beginning	After 24 hours		
1. Blank	$3.6 \times 10^5$	$1.4 \times 10^5$	-----	-----
2. 0.25%	$3.6 \times 10^5$	$<1 \times 10^2$	>3.1	>99.928
3. 0.5%	$3.6 \times 10^5$	$<1 \times 10^2$	>3.1	>99.928
Control (Film only)	$3.6 \times 10^5$	$6.5 \times 10^6$		

**4. Consideration:**

Sample 2 and 3 had shown antimicrobial efficacy as the reduction percentage exceeded 99.9%.

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