



28 August 2007

Messrs. Sides spa – Decoral

ISHIZUKA GLASS CO., LTD.
Advanced Glass Company

REPORT ON ANTI-MICROBIAL TEST RESULT

1. Sample:

PU Powder Coated Plates

No.	Sample
1.	FP 456 / 1
2.	FP 456 / 2
3.	FP 456 / 3

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

<Density of Nutrient Broth>

1/50 NB

<Incubation Time>

5 Hours

3. Test result:

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

Sample	Number of living bacteria		Antimicrobial activity value against Control	Reduction %
	At beginning	After 5 hours		
1. FP 456 / 1	2.4×10^5	$<1 \times 10^2$	>3.8	>99.987
2. FP 456 / 2	2.4×10^5	$<1 \times 10^2$	>3.8	>99.987
3. FP 456 / 3	2.4×10^5	$<1 \times 10^2$	>3.8	>99.987
Control (Film only)	2.4×10^5	7.7×10^5		

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

Sample	Number of living bacteria		Antimicrobial activity value against Control	Reduction %
	At beginning	After 5 hours		
1. FP 456 / 1	2.0×10^5	$<1 \times 10^2$	>3.9	>99.987
2. FP 456 / 2	2.0×10^5	$<1 \times 10^2$	>3.9	>99.987
3. FP 456 / 3	2.0×10^5	$<1 \times 10^2$	>3.9	>99.987
Control (Film only)	2.0×10^5	8.0×10^5		



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4. Consideration:

Sample 1, 2, and 3 had shown antimicrobial efficacy against control sample.

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