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Messrs. Co- Action Corp.

July 16, 2013 Ishizuka Glass Co., Ltd..

# REPORT ON ANTI-MICROBIAL TEST RESULT

## 1. Test sample:

PET staple fiber for Far Eastern New Century

1. PET staple fiber with 0.6% IONPURE ZAF(2W)

#### 2. Outline of test:

The test was executed in accordance with JIS L1902 "Testing method for anti-microbial of textiles".

<Bacteria to be used for test>

Escherichia coli NBRC 3972

Staphylococcus aureus NBRC 12732

### 3. Test result:

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

Test sample	Number of living bacteria per 0.4g test sample		Value of bacteriostatic
	At Beginning	After18 hours	activity against control
1.PET staple fiber with 0.6% IONPURE ZAF(2W)	$2.2 \times 10^{4}$	<2.0 ×10 <sup>2</sup>	>6.0
Control (Film only)	$2.2 \times 10^{4}$	$2.0 \times 10^{8}$	

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

	Number of living bacteria per 0.4g test sample		Value of bacteriostatic
	1.PET staple fiber with 0.6% IONPURE ZAF(2W)	4.8 ×10 <sup>4</sup>	<2.0 ×10 <sup>2</sup>
Control (Film only)	4.8 ×10 <sup>4</sup>	$3.0 \times 10^{7}$	

## 4. Consideration:

Antimicrobial efficacy was shown on the sample.

Ishizuka Glass Co., Ltd.

Manager

Tomoshige Hasegawa