



Test Report

No: SHFDO111124336FDS1

Date: Dec 02 2011

Client name: Personal Safety Corporation
Client address: 1655 Progress Drive Hiawatha, Iowa 52233

The following sample(s) was/were submitted by/ on behalf of the client as (except SGS reference No. & SGS job No. & Date of receipt & Testing period):

Sample name: mat
Batch No./Date: /
Manufacturer: /
*Sample other information: P: 800.373.3307
SGS job no.: SHFDO111124336FD
Date of receipt: Nov 16 2011
Testing period: Nov 16 2011~ Nov 24 2011

TEST(S) REQUESTED:

Selected test(s) as requested by applicant:
Antibacterial Assessment for the submitted sample

TEST METHOD:

JIS L 1902:2008 The Method of antibacterial test and assessment of antibacterial effectiveness for textiles , Chapter 10: Quantitative test (Absorption method)

CONCLUSION:

Pass: The Log value of bacteriostatic for *Staphylococcus aureus* is > 4.8, the Log value of bacteriostatic for *Escherichia Coli* is >5.7, all comply with JIS L 1902:2008 Specification for antibacterial finish (The bacteriostatic activity value shall be ≥ 2.0 for antibacterial finish) .

TEST RESULT(S):

Please refer to next page

Remark: * Information was added by the request of the client after test report was issued.

THIS REPORT IS TO SUPERSEDE TEST REPORT SHFDO111124336

Signed for and on behalf of SGS



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SHFD

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TEST ORGANISMS:

Staphylococcus aureus ATCC 6538P, *Escherichia Coli* ATCC 8739

TEST RESULT(S):

Name of test bacteria (Strain number)	<i>Staphylococcus Aureus</i> (ATCC 6538P)	<i>Escherichia Coli</i> (ATCC 8739)
Concentration of inoculum (CFU/mL)	1.2x10 ⁵	1.6x10 ⁵
The growth value on the control sample F (F=M _b -M _a)	+2.0 (M _b :+ 6.1 , M _a :+4.1)	+2.7 (M _b :+ 7.0 , M _a :+4.3)
The growth value on the antimicrobial- treated sample (M _c - M _d)	<-2.8 (M _c :<1.3 , M _d :+4.1)	<-3.0 (M _c : <1.3 , M _d :+4.3)
Bacteriostatic activity value S= (M _b -M _a)- (M _c -M _d)	>4.8	>5.7
Bactericidal activity value L= M _a -M _c	>2.8	>3.0
Incubation time (h)	18	
Measuring method	Plate count method	

REMARK:

M_a: The average of log value of bacteria obtained from the three control sample that inoculated the test germ after 0h.

M_b: The average of log value of bacteria obtained from the three control sample that inoculated the test germ after 18h.

M_c: The average of log value of bacteria obtained from the three antibacterial finishes that inoculated the test germ after 18h.

M_d: The average of log value of bacteria obtained from the three antibacterial finishes that inoculated the test germ after 0h

The control sample is standard cotton cloth specified by JISL 1902:2008, provided by SGS lab.

SAMPLE DESCRIPTION: Black sample



*** End of Report***

