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Antimicrobial Test Report

Report Reference:	Tekimsan - 0002
Client:	Tekimsan
Material tested:	PP with ST10232 @ 2%
Test Laboratory:	Anti-Microbial Test Division, Kyoto Biseibutsu Kenkyusyo
	Yamashina-ku, Kyoto 607-8482, Japan

Evaluation of the antimicrobial performance of samples containing antimicrobial additives. All testing is conducted by an independent laboratory using the ISO 22196 / JIS Z 2801:2000 test method.

Introduction

This report details the analysis carried out on the test samples, including an overview of the test method, the test results, an interpretation of those results and copies of the associated laboratory certificates.

Test samples

52428-C

Where possible, all test materials are taken from samples of the actual product. Samples typically measure 50mm x 50mm, as specified by the JIS Z 2801:2000 method, although where this is impractical it is permissible to use smaller samples with the method being modified accordingly.

Sample Ref.	Description
Control	Untreated polyethylene film
52428-A	PP with ST10232 @ 2%
52428-B	PP with ST10232 @ 2%

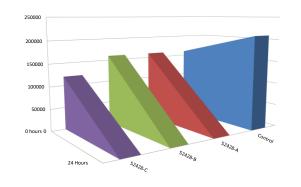
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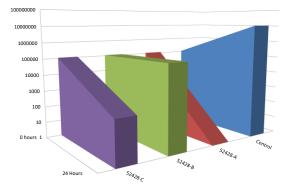
MRSA (Methicillin Resistant Staphylococcus aureus)

Tested at 35°C		Number of live organisms (Colony Forming Units)		% reduction of Colony Forming Units, expressed		
Sample			0 hours	24 Hours	as comparison with control	
Control	Untreated polyethylene film		160000	210000	N/A	
52428-A	PP with ST10232 @ 2%		160000	340	99.8% Reduction	VERY GOOD
52428-B	PP with ST10232 @ 2%		160000	<10	>99.995% Reduction	EXCELLENT
52428-C	PP with ST10232 @ 2%		120000	620	99.7% Reduction	VERY GOOD

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Escherichia coli Tested at 35°C Number of live organism Forming Units, expressed as comparison with contro 24 Hour 52428-A PP with ST10232 @ 2% 110000 <10 >99.9999% Reductio EXCELLENT 52428-B PP with ST10232 @ 2% PASS 110000 140000 98% Reduction 52428-C PP with ST10232 @ 2% EXCELLENT 110000 390 99.996% Reduction





Test method

The samples were tested according to the JIS Z 2801:2000 method, briefly summarised as follows;

PP with ST10232 @ 2%

Each test sample is inoculated with a suspension of the test organism (for example, MRSA). The inoculum is held in contact with the test sample using a sterile polyethylene film. All test samples are inoculated in triplicate, with an additional three replicates of the control.

The bacterial population on three control replicates is evaluated immediately following inoculation. This is assumed to be the initial population on all test samples (i.e. the population at zero hours).

The remaining samples are incubated for the test period (24 Hours) at 35°C, at which time the bacterial population is evaluated.

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