



Antimicrobial Test Report

Activiors™ Antimicrobial

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Your Defense Against
Harmful Microorganisms



The following sample was (were) submitted and identified by the client as:

Sample Description	: High Pressure Decorative Laminate, type compact laminate
Colour	: White
Style	: Sample O
Sample Receiving Date	: 02 April 2024
Test Performing Period	: 23 April – 14 May, 2024
Test Results	: Please refer to the next page(s).
Performed Test Summary:	: Selected test(s) as requested by client against Client's performance standard.

Signed for and on behalf of
SGS Pakistan Ltd.



BABAR SHAKEEL
Assistanat Manager
Connectivity and Products

JOE# 4282012

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

Test Results:

Sample Description:

Sample No.	Material	Description
A	01	Sheet sample

Test Result(s):

Test Requested: Selected test(s) as requested by applicant: Antimicrobial activity test

Test Method: JIS Z 2801:2010 (COR 1:2011, AMD 1:2012) Antimicrobial products - Test for antimicrobial activity and efficacy (Including modification list COR 1:2011, AMD 1:2012)

Test organism(s)	MRSA ATCC 33591
Concentration of bacteria (CFU/mL)	3.3×10 ⁵
Volume of test inoculum (mL)	0.4
U ₀	3.88
U _t	4.82
A _t	-0.20
B (CFU/cm ²)	6.6×10 ⁴
C (CFU/cm ²)	<0.63
R, the value of antimicrobial activity	5.0
Antibacterial activity rate (%)*	>99.9

Notes:

- The control sample is plastic film without antimicrobial activity, provided by SGS laboratory
- U₀: the average of the common logarithm of the number of viable bacteria that recovered from control sample at "0 h" contact time (CFU/cm²).
- U_t: the average of the common logarithm of the number of viable bacteria that recovered from control sample at "24 h" contact time (CFU/cm²).
- A_t: the average of the common logarithm of the number of viable bacteria that recovered from sample at "24 h" contact time (CFU/cm²).
- *The calculation formula of the antibacterial activity rate is [(B-C)/B] x100%;
 B: arithmetic average of the numbers of bacteria obtained from control samples after 24 h Incubation (CFU/cm²);
 C: arithmetic average of the numbers of bacteria obtained from samples after 24 h incubation (CFU/cm²).
- Pre-treatment: The surface of test specimen was wiped with 70% ethanol, rinsed with sterile water and let it air-dry.

**This test results were obtained from a SGS affiliated laboratory.
 (Test report no.: GZIN2404000604CM02_EN)**

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Sample Photo



*****End of Report*****

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