

Test Report 4661790

Date : 24-Jul-2020

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Client : Wilsonart (Thailand) Co.,Ltd.
75/16 Moo 5, Soi Wat Sopanaram, Ekkachai Road
Amphur Muang, Samutsakorn 74000 Thailand

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

Sample Name : Wilsonart High Pressure Laminate
Sample Description : High Pressure Laminate

The following sample(s) was/were identified by SGS as:

SGS Sample No. : 4836020
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 24 pcs

Date Received : 16-Jul-2020

Date Commenced : 16-Jul-2020

Signed for and on behalf of
SGS (Thailand) Limited



Jirapan Vilaipol
Microbiological Lab Manager

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TEST RESULTS

Test Required : Antibacterial activity and efficacy (Quantitative) - *Klebsiella pneumoniae* ATCC 4352 (and) - *Pseudomonas aeruginosa* ATCC 9027

Test Method : Based on JIS Z 2801:2010

Tested microorganism	Concentration of bacteria (CFU/ml)	Initial inoculum concentration (CFU/piece of samples)	The number of bacteria recovered from control at 0 hr. contact time(CFU/piece of samples)	The number of bacteria recovered from control at 24 hrs. contact time(CFU/piece of samples)	The number of bacteria recovered from tested sample at 24 hrs. contact time(CFU/piece of samples)	Value of antimicrobial activity(R)	%Reduction
<i>Klebsiella pneumoniae</i> ATCC 4352	360,000	140,000 (5.1 log)	110,000 (5.0 log)	3,600,000 (6.6 log)	Less than 10 (<1.0 log)	>5.6	>99.99
<i>Pseudomonas aeruginosa</i> ATCC 9027	500,000	200,000 (5.3 log)	200,000 (5.3 log)	7,500,000 (6.9 log)	Less than 10 (<1.0 log)	>5.9	>99.99

Remark

- The % Reduction is calculated based on customer's requirement.
- % Reduction = (A-B)/A * 100
where,
A = The number of bacteria recovered from control at 0 hrs. contact time(CFU/piece of samples)
B = The number of bacteria recovered from tested sample at 24 hrs. contact time(CFU/piece of samples)
- R = (Ut - Uo) - (At - Uo) = Ut - At

Where, R : antibacterial activity
 Uo : average of logarithm numbers of viable bacteria immediately after inoculation on untreated test piece
 Ut : average of logarithm numbers of viable bacteria after inoculation on untreated test piece after 24 h
 At : average of logarithm numbers of viable bacteria after inoculation on antibacterial test piece after 24 h
 Criteria : The value of antimicrobial activity obtained by the testing methods of this standard shall not be less than 2.0

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

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