

Textile Laboratory

Test Report

No: TX40146 /2020 /LR

Date: Apr. 21, 2020

Page 1 of 3

Chulin Universal Trading Inc.
7F, No.43, Ming Sheng E. Rd.,
Taipei, Taiwan, R.O.C.

The following sample was submitted and identified by applicant as:

Sample Description : One sample of 3W001A3 non woven fabric

Color : White

Fiber Content : 100% PP (Polypropylene)

Applicant : Chulin Universal Trading Inc.

Sample Receiving Date : Apr. 06, 2020

Test Performance Period : Apr. 06, 2020 to Apr. 21, 2020

Client's Provided Care Label :

Test Performed : Selected test(s) as requested by applicant.

Test Results : For further details, please refer to the following page(s).

Signed for and on behalf of
SGS Taiwan Ltd.

Hsu Chih Chieh, Josh
Test Specialist



"Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, and such sample(s) are retained for 3 months only." This test report cannot be reproduced, except in full, without prior written permission of the Company.

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."

Textile Laboratory

Test Report

No: TX40146 /2020 /LR

Date: Apr. 21, 2020

Page 2 of 3

Test Results:

Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents under Dynamic Contact Conditions (ASTM E2149 - 13)

Bacteria: Staphylococcus aureus ATCC 6538

As received

Test Organism: Test Group	(CFU/ml)	REDUCTION (R%)
Inoculum at 0 Hr	1.7×10^5	99.9
Inoculum at 24 Hr (B)	3.0×10^5	
Untreated test after 24 Hr (C)	--	
Treated test after 24 Hr (A)	4.8×10^1	

Bacteria: Escherichia coli ATCC 25922

As received

Test Organism: Test Group	(CFU/ml)	REDUCTION (R%)
Inoculum at 0 Hr	2.9×10^5	>99.9
Inoculum at 24 Hr (B)	4.0×10^6	
Untreated test after 24 Hr (C)	--	
Treated test after 24 Hr (A)	<30	

Bacteria: Klebsiella pneumoniae ATCC 4352

As received

Test Organism: Test Group	(CFU/ml)	REDUCTION (R%)
Inoculum at 0 Hr	1.6×10^5	>99.9
Inoculum at 24 Hr (B)	1.9×10^6	
Untreated test after 24 Hr (C)	--	
Treated test after 24 Hr (A)	<30	

A:CFU/mL for the flask containing the treated substrate after the specified contact time

B:CFU/mL for the "inoculum only" flask after the specified contact time

C:CFU/mL for the flask containing the untreated substrate after the specified contact time

$$R\% = ((B-A) / B) \times 100 \%$$

Remark: Blank sample C was not available from the client.

"Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, and such sample(s) are retained for 3 months only." This test report cannot be reproduced, except in full, without prior written permission of the Company.

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."

Test Results:

Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents under Dynamic Contact Conditions (ASTM E2149 - 13)

Bacteria: Pseudomonas aeruginosa ATCC 9027

As received

Test Organism: Test Group	(CFU/ml)	REDUCTION (R%)
Inoculum at 0 Hr	1.6×10^5	>99.9
Inoculum at 24 Hr (B)	9.3×10^6	
Untreated test after 24 Hr (C)	--	
Treated test after 24 Hr (A)	<30	

Bacteria: Candida albicans ATCC 10231

As received

Test Organism: Test Group	(CFU/ml)	REDUCTION (R%)
Inoculum at 0 Hr	2.3×10^5	>99.9
Inoculum at 24 Hr (B)	7.1×10^5	
Untreated test after 24 Hr (C)	--	
Treated test after 24 Hr (A)	<30	

A:CFU/mL for the flask containing the treated substrate after the specified contact time

B:CFU/mL for the "inoculum only" flask after the specified contact time

C:CFU/mL for the flask containing the untreated substrate after the specified contact time

$R\% = ((B-A) / B) \times 100 \%$

Remark: Blank sample C was not available from the client.

Above test items were tested by relevant SGS laboratory.

*** End of Report ***

"Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, and such sample(s) are retained for 3 months only." This test report cannot be reproduced, except in full, without prior written permission of the Company.

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."