



中国认可
检测
TESTING
CNAS L0599

Test Report

Report No: ASH20-043382-01

Date: Jul 31 2020

Client name:
Client address:
Sample name: . Antibacterial Performance Testing for RPET
Sample Batch No.: fabric /
Product Date: /
Manufacturer: /

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS reference No.: GZF20-014572
Date of sample received: Jul 27 2020
Testing period: Jul 27 2020~Jul 31 2020
Test Requested: Selected test(s) as requested by applicant:
Antibacterial Assessment for the submitted sample
Test Method: Please refer to the next page(s)
Test Result(s): Please refer to the next page(s)

Unless otherwise stated the results shown in this test report refer only to the items tested, and for clients internal use only, not to the society has the proof function. This document cannot be used for publicity, without prior written approval of the SGS.



SGS Authorized Signature

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Conclusion(s):

Name of test bacteria (Strain number)	Antibacterial value:A	Efficacy of antibacterial property	Comment
<i>Escherichia coli</i> (ATCC 8739)	2.0	Antibacterial value $2 \leq A < 3$, the efficacy of antibacterial property of the test fabric can be considered significant; Antibacterial activity $A \geq 3$, the efficacy of antibacterial property of the test fabric can be considered strong	Pass, the efficacy of antibacterial property of the test fabric can be considered significant
<i>Staphylococcus aureus</i> (ATCC 6538)	4.9		Pass, the efficacy of antibacterial property of the test fabric can be considered strong
<i>Klebsiella pneumoniae</i> (ATCC 4352)	3.2		Pass, the efficacy of antibacterial property of the test fabric can be considered strong

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Date: Jul 31 2020

Sample Description:

Specimen No.	SGS Sample ID	Description
1	ASH20-043382.001	sample in bag

Test Method:

ISO 20743:2013 Textiles-Determination of antibacterial activity of textile products: 8.1 Absorption method

Test Organisms:

Escherichia coli ATCC 8739, *Staphylococcus aureus* ATCC 6538, *Klebsiella pneumoniae* ATCC 4352

Test Result(s):

Test Result (g)						
Name of test bacteria (Strain number)	<i>Escherichia coli</i> (ATCC 8739)		<i>Staphylococcus aureus</i> (ATCC 6538)		<i>Klebsiella pneumoniae</i> (ATCC 4352)	
Concentration of inoculum (CFU/mL)	1.6x10 ⁵		1.6x10 ⁵		1.3x10 ⁵	
Difference of extremes for the three control specimens(lg) (condition: less than 1)	0h	24h	0h	24h	0h	24h
	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Difference of extremes for the three antibacterial testing specimens(lg) (condition: less than 2)	0h	24h	0h	24h	0h	24h
	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
The growth value on the control sample F (F=lgC _t -lgC ₀)	+3.5 (lgC _t : +8.0 , lgC ₀ : +4.5)		+3.5 (lgC _t : +8.0 , lgC ₀ : +4.5)		+3.7 (lgC _t : +8.1 , lgC ₀ : +4.4)	
The growth value on the antimicrobial-treated sample G (G =lgT _t -lgT ₀)*	+1.5 (lgT _t : +6.0 , lgT ₀ : +4.5)		-1.4 (lgT _t : +3.1 , lgT ₀ : +4.5)		+0.5 (lgT _t : +4.9 , lgT ₀ : +4.4)	
Antibacterial activity value (A=F-G)	2.0		4.9		3.2	
Measuring method	Plate count method					
Sterilization method	Autoclave					
Incubation time	24h					

Remark: The control sample is 100% cotton fabric, provided by SGS lab.

* In case of C₀> T₀, substitute C₀ for T₀.

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Sample Photo:

ASH20-043382.001



*** End ***

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