

SHANGHAI RISMAT MATTING COMPANY LIMITED

BUILDING 4-8, NO.168, CAOSHENG ROAD, XUHANG TOWN, JIADING DISTRICT, SHANGHAI 201808, P.R. CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)Antibacterial nylon mat  
Composition : (A)Face: Nylon  
Sample Color : (A)Charcoal  
Order No. : A20-05-000026  
Manufacturer : FLOOR GUARD MATTING MANUFACTURING COMPANY LIMITED

Proposed Care Instruction : -

Sample Receiving Date : May 18, 2020  
Testing Period : May 18, 2020 - May 29, 2020  
Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

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

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center



Hattie Chen (Account Executive)

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Test Result

**Antibacterial Activity**

**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):**

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)	2.2x10 <sup>5</sup>		2.2x10 <sup>5</sup>		2.1x10 <sup>5</sup>	
Difference of extremes for the three control specimens(Ig) (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(Ig) (condition: less than 2)	0h	24h	0h	24h	0h	24h
	<0.1	<0.1	<0.1	0.0	<0.1	0.0
The growth value on the control sample F (F=lgC <sub>t</sub> - lgC <sub>0</sub> )	+3.1 (lgC <sub>t</sub> : +7.7 , lgC <sub>0</sub> : +4.6)		+3.1 (lgC <sub>t</sub> : +7.7 , lgC <sub>0</sub> : +4.6)		+3.1 (lgC <sub>t</sub> : +7.7 , lgC <sub>0</sub> : +4.6)	
The growth value on the antimicrobial-treated sample G (G =lgT <sub>t</sub> -lgT <sub>0</sub> )*	-1.5 (lgT <sub>t</sub> : +3.1 , lgT <sub>0</sub> : +4.6)		-3.3 (lgT <sub>t</sub> : +1.3 , lgT <sub>0</sub> : +4.5)		-3.3 (lgT <sub>t</sub> : +1.3 , lgT <sub>0</sub> : +4.4)	
Antibacterial activity value (A=F-G)	4.6		6.4		6.4	
Measuring method	Plate count method					
Sterilization method	121 °C/15min					
Incubation time	24h					

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

\* In case of C<sub>0</sub> > T<sub>0</sub>, substitute C<sub>0</sub> for T<sub>0</sub>.

Whole sampling test.



**Conclusion(s):**

Name of test bacteria (Strain number)	Antibacterial value:A	Efficacy of antibacterial property	Comment
<i>Escherichia coli</i> (ATCC 8739)	4.6	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 strong
<i>Staphylococcus aureus</i> (ATCC 6538)	6.4		Pass, the efficacy of antibacterial property of the test fabric can be considered strong
<i>Klebsiella pneumoniae</i> (ATCC 4352)	6.4		Pass, the efficacy of antibacterial property of the test fabric can be considered strong

**Sample Photo**



The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

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

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