



TEST REPORT

Trans Pacific Textile (M) Sdn. Bhd.

Test Report No:

SINT20802780

Test Report

Company Name & Address	Honsin Apparel Sdn. Bhd. 531, Batu 2 ½, Jalan Kluang, 83000, Batu Pahat, Johor Darul Takzim, Malaysia.
Product/Model(s)	Fabric Face Mask: ProXmask 90 Sample A (Black-KS0181), Sample B (Orange- KS160-1), Sample C (Black-KS0181) and Sample D (Orange-KS160-1)
Standard/Specification(s)	Anti-Bacterial Finishes on Textile Materials AATCC 100-2012 Water Repellency-Spray Test AATCC 22-2005 Bacteria Filtration Efficiency ASTM F2101-19
Date of Report	7 April 2020
Test Report Number	SINT20802780

This report is made on the basis of information and data from original report results.

Prepared by

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R&D Chemist



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1. Anti-Bacterial Finishes on Textile Materials (AATCC 100-2012)

<u>Sample C</u>	
0 hour	1.99 x 10 ⁵
24 hours	<100
% Reduction	>99.95

<u>Sample D</u>	
0 hour	1.99 x 10 ⁵
24 hours	<100
% Reduction	>99.95

Remark:

S. = *Staphylococcus* (ATCC 6538)

CFU/sample = colony forming unit per sample.

% Reduction (R) = 100 (C-A)/C

Where:(A) = the number of bacteria recovered from the inoculated treated test specimen swatches in the jar after "24 hr." contact time.

(C) = the number of bacteria recovered from the inoculated untreated control swatches in the jar at "0" contact time.

2. Water Repellency-Spray Test (AATCC 22-2005)

(Tested On Face Side Only)

Sample A	100
Sample B	100

3. Bacteria Filtration Efficiency (BFE) Test (ASTM F2101-19)

Test description:

ASTM F2101-19 standard test method for evaluating the bacteria filtration efficiency (BFE) of medical face mask materials, using a biological aerosol of *Staphylococcus aureus*.

Area contacting with the bacteria challenge: Inside of the mask

Flow rate: 28.3 ± 0.3 L/min

Mean particle size of the challenge aerosol: 3 µm ± 0.3 µm

Test area: approximately 38.5 cm

Result:

Sample description: Fabric Face Mask. Colour: Black

After data acquisition on the Anderson Sieve Sampler for 6 stages, the total bacteria filtration efficiency (BFE) is then calculated by the bacterial CFU counts reduction before and after mask installation,

BFE: 90% –Meeting ASTM F2101 fabric mask requirement.