

ULR-TC578720000012848P
Test Report No.GGN/T(A)/20/011170 A2
Dated 2020-07-17



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Applicant	: Sunningdale Tech Ltd ..,51 Joo Koon Circle Singapore,Singapore,629069
Attention	: Goh pei sun, Suresh malathi,
Test sample	: Received on 2020-06-10 10:10 am
Test period	: 2020-06-10 to 2020-06-26 Amendment date:2020-07-17
Sample description	: Sample A:Surgical face mask (Melt blown non woven fabric) in Color : Blue/White
Style No	: M94-STFM001
Product Type/End use	: Surgical face mask/Public
Country of Origin	: Singapore
Agency	: Not applicable
Agency contact person	: Not applicable
Name of buyer/ destination	: Self Reference

Note : The submitted Samples were not drawn by laboratory.

Unless otherwise agreed upon, PASS or FAIL verdicts are given based on the measured values without any considerations of measurement uncertainties. Every test method has a measurement uncertainty which has been evaluated by the laboratory and are available on request. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL

By accepting this document the customer hereby agrees and accepts the 'Terms & Conditions' and the relevant 'Testing & Certification Regulations' of TÜV SÜD South Asia Pvt. Ltd. which are available at Company's website at the link-<http://www.tuv-sud.in/in-en/resource-centre/terms-and-conditions>

Note: The test report is electronically generated. Hence original signature is not required.

Note : (1) The results relate only to the items tested, (2) The test report shall not be reproduced except in full without the written approval of the laboratory, (3) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4.

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Result summary / Conclusion :

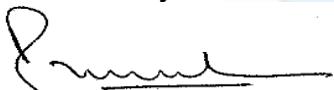
<u>Test</u>	<u>A</u>
Flammability	PASS
Differential Pressure / Breathability	PASS
Bacterial Filtration Efficiency (BFE)	PASS
Sub-Micron Particulate Filtration Efficiency	PASS
Splash Resistance / Resistance to Penetration of Synthetic Blood	PASS

Amendment Remark: The report no GGN/T(A)/20/011170 Amd1 dated 2020-06-23 has been superseded. The test report is amended in terms of inclusion of subcontracted lab information.

Note:

1. # The identified tests are performed in our ISO 17025 accredited subcontract laboratory "Accuprec Research Labs Pvt. Ltd" (Certificate No. TC-6124) and test results are referred from the test report no. 3440, Dated: 18/06/2020 issued by the subcontract laboratory.
2. * The test is under the scope of ISO 17025 accreditation.

Authorized By



Venu Gopala Krishna Rayudu
 (Authorised Signatory)

Please contact :
 For any technical issues : Banerjee Tirtha at Tirtha.Banerjee@tuv-sud.in
 For any complaint : Krishna Deori at Krishna.Deori@tuv-sud.in.

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Test result

1.0 Flammability*

16 CFR Part 1610 : 2008,

	Results	Client Specs
Sample A Upper fabric	Class 1	Class 1

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<input checked="" type="checkbox"/> PLAIN SURFACE		<input type="checkbox"/> RAISED SURFACE	
Original Face Length - 1		After Refurbishing # Face Length - 1	
TIME (SECONDS)		BURN CHARACTERISTICS	
1		IBE	1
2		IBE	2
3		IBE	3
4		IBE	4
5		IBE	5
AVERAGE*			AVERAGE*
6			6
7			7
8			8
9			9
10			10
AVERAGE**			AVERAGE**

CLASSIFICATION CLASS 1

#Refurbishing The sample first undergone commercial dry cleaning in condition perchloroethylene and then washed accordance with AATCC 124, Test No. (1) III A (ii), 12 min machine wash at 140°F, normal cycle followed by tumble dry medium.

EXPLANATION OF FLAMMABILITY RESULTS.

For Plain Surface Fabrics

DNI: DID NOT IGNITE

BB-BASE BURN

IBE: IGNITED BUT EXTINGUISHED

...sec: ACTUAL BURN TIME MEASURED AND RECORDED BY THE TIMING DEVICE.

For Raised Surface Fabrics

SF uc - SURFACE FLASH, UNDER THE STOP THREAD, BUT DOES NOT BREAK THE STOP THREAD

SF pw - SURFACE FLASH, PART WAY, NO TIME SHOWN BECAUSE THE SURFACE FLASH DID NOT REACH THE STOP THREAD.

SF poi - SURFACE FLASH, AT THE POINT OF IMPINGEMENT ONLY

... sec. - ACTUAL BURN TIME MEASURED BY THE TIMING DEVICE IN 0.0 SECONDS

... SF only - TIME IN SECONDS, SURFACE FLASH ONLY.

... SFBB - TIME IN SECONDS, SURFACE FLASH BASE BURN STARTING AT PLACES OTHER THAN THE POINT OF IMPINGEMENT AS A RESULT OF SURFACE FLASH.

... SFBB poi - TIME IN SECONDS, SURFACE FLASH, BASE BURN STARTING AT THE POINT OF IMPINGEMENT

... SFBB poi - TIME IN SECONDS, SURFACE FLASH, BASE BURN POSSIBLY STARTING AT THE POINT OF IMPINGEMENT(*UNABLE TO MAKE ABSOLUTE DETERMINATION AS TO SOURCE OF BASE BURNS.)

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2.0 Differential Pressure / Breathability #

EN 14683:2019+AC:2019 /Annex C, Flow rate 8 L/min

	Result	Client Specs
Sample A Result	-	2.69 mm H ₂ O/cm ² <6mm H ₂ O/cm ²

Note: The test requirement is taken as per ASTM F2100 – 19, Level 3 Barrier

3.0 Bacterial Filtration Efficiency (BFE) #

ASTM F2100-19 / ASTM F2101 -19, (Flow rate 28.3 L/min, Mean particle size 3.0 μ)

	Result	Client Specs
Sample A Result	-	98.52% >=98%

Note: The test requirement is taken as per ASTM F2100 – 19, Level 3 Barrier

4.0 Sub-Micron Particulate Filtration Efficiency #

ASTM F2100-19/ ASTM F2299 /F2299M - 03 (Reapproved 2017), (Average particle size 0.1 μ)

	Result	Client Specs
Sample A Result	-	98.0% Particle filtration efficiency should be >=98%

Note: The test requirement is taken as per ASTM F2100 – 19, Level 3 Barrier

5.0 Splash Resistance / Resistance to Penetration of Synthetic Blood #

ASTM F1862, Done at 120mg/Hg

	Results	Client Specs
Sample A Result	-	32 out of 32 masks pass the test There should not be visible penetration of synthetic blood at the end of test period. 29 masks out of 32 masks should pass the test to qualify this parameter.

Note: The test requirement is taken as per ASTM F2100 – 19, Level 2 Barrier

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- End of Test report-

