

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



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

**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.

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

**Result summary / Conclusion :**

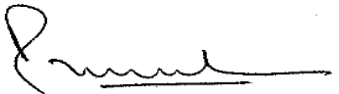
<u>Test</u>	<u>A</u>
Flammability	PASS
Differential Pressure / Breathability	PASS
Bacterial Filtration Efficiency (BFE)	PASS
Sub-Micron Particulate Filtration Efficiency	PASS
Splash Resistance / Resistance to Penetration of Synthetic Blood	PASS

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:**

- # 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.
- \* 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](mailto:Tirtha.Banerjee@tuv-sud.in)  
 For any complaint : .Krishna Deori at [Krishna.Deori@tuv-sud.in](mailto:Krishna.Deori@tuv-sud.in).

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

**Test result**

**1.0 Flammability\***  
16 CFR Part 1610 : 2008,

**Results**

**Client Specs**

Sample A Upper fabric

Class 1

Class 1



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

PLAIN SURFACE

RAISED SURFACE

Original Face Length - 1		After Refurbishing # Face Length - 1	
TIME (SECONDS)	BURN CHARACTERISTICS	TIME (SECONDS)	BURN CHARACTERISTICS
1	IBE	1	IBE
2	IBE	2	IBE
3	IBE	3	IBE
4	IBE	4	IBE
5	IBE	5	IBE
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.)

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

**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 <sub>2</sub> O/cm <sup>2</sup>	<6mm H <sub>2</sub> O/cm <sup>2</sup>
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 quality this parameter.

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

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

- End of Test report-

