



STC
Test Report

Date : 2020-08-26
No. : HC20080748

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Applicant(Code:01325457) : Flex Essential Limited
Room 312 Century Centre
44-46 Hung To Road
Kwun Tong Kln HK

Description of Sample(s) : One submitted sample said to be Surgical Mask.
Country of Origin : HK

Sample(s) Received Condition(s): In plastic bag under
ambient temperature

Date Sample(s) Received : 2020-07-29

Date Tested : 2020-08-03 to 2020-08-25

Investigation Requested :

1. Bacterial Filtration Efficiency (BFE) %
– *Staphylococcus aureus* (ATCC 6538)
2. Particulate Filtration Efficiency (PFE) %
3. Flammability to Class 1
4. Synthetic Blood Penetration

Method(s) Used :

1. ASTM F2100-2019 9.1 & ASTM F2101-2019
2. ASTM F2100-2019 9.3 & ASTM F2299-2017
3. 16 CFR 1610
4. ASTM F2100-19 9.4 & ASTM F1862-17



CHUAH Ah Poh, Anne
Authorized Signatory
Chemical and Food Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.





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Test Result(s):

1. Bacterial Filtration Efficiency (BFE) %
 – *Staphylococcus aureus* (ATCC 6538)

Specimen(s)	Surgical Mask
1	98.7%
2	98.9%
3	98.7%
4	99.0%
5	98.4%

Notes : - Control average : 1828 CFU
 - Mean particle size : 3.2µm
 - Testing side : Outside of specimen
 - Testing area : 47 cm²

2. Particulate Filtration Efficiency (PFE) %
 (0.1µm PSL ; Flow rate : 28.3 Litre/min)

Specimen(s)	Surgical Mask
1	>99.9%
2	>99.9%
3	>99.9%
4	98.1%
5	>99.9%

3. Flammability to Class 1

Specimen(s)	Surgical Mask	Class
	Time of spread of flame (Original state)	
1	Did not ignite	1
2	Did not ignite	
3	Did not ignite	
4	Did not ignite	
5	Did not ignite	



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4. Synthetic Blood Penetration (Pressure : 160mmHg)

Specimen(s)	Surgical Mask	Specimen(s)	Surgical Mask
1	None Seen	17	None Seen
2	None Seen	18	None Seen
3	None Seen	19	None Seen
4	None Seen	20	None Seen
5	None Seen	21	None Seen
6	None Seen	22	None Seen
7	None Seen	23	None Seen
8	None Seen	24	None Seen
9	None Seen	25	None Seen
10	None Seen	26	None Seen
11	None Seen	27	None Seen
12	None Seen	28	None Seen
13	None Seen	29	None Seen
14	None Seen	30	None Seen
15	None Seen	31	None Seen
16	None Seen	32	None Seen
Requirement: An acceptable quality limit of 4.0% is met for a normal single sampling plan when ≥ 29 of 32 test specimens show passing result (none seen)			

Photo(s):



***** End of Test Report *****

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