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10A LIMITED

RMS 1001-1005, 10/F, NANYANG PLAZA, 57 HUNG TO RD., KWUN TONG, KLN, HONG KONG

The following samples were submitted and identified by/on behalf of the client as: 10A NANOGO RESPIRATOR LOTUS

| Case No. | : | CA321202445409 |
|-----------------------|---|-----------------------------|
| Lot No. / Batch Code | : | G2D |
| Sample Description | : | WHITE RESPIRATOR |
| Style / Item No. | : | FM3D-M SERIES |
| Quantity Submitted | : | 100 PCS |
| Manufacturer | : | 10A LIMITED |
| Country of Origin | : | HONG KONG |
| Sample Receiving Date | : | MAR 31, 2021 |
| Testing Period | : | MAR 31, 2021 – APR 19, 2021 |

| Test Requested | Conclusion |
|---|------------|
| With reference to EN 14683:2019+AC:2019 Medical face masks - Requirements | PASS |
| and test methods (Excluded Clause 5.2.6 and Clause 6) | (Type IIR) |

******** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) ********

Signed for and on behalf of SGS Hong Kong Ltd.

Au Kam Chi, Gigi Technical Manager Signed for and on behalf of SGS Hong Kong Ltd.

Wong Kin Man, Gilman Technical Development Manager Signed for and on behalf of SGS Hong Kong Ltd.

'lutter'

Tsang Chuk Hai Senior Microbiologist



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| With refere Scope Number of S | test methods for medical face mas infective agents from staff to patien medical settings with similar requir appropriate microbial barrier can a infective agents from the nose and patient with clinical symptoms. Thi masks intended exclusively for the | ion, design, performance requirements and iks intended to limit the transmission of ints during surgical procedures and other ements. A medical face mask with an ilso be effective in reducing the emission of I mouth of an asymptomatic carrier or a is European Standard is not applicable to |
|-------------------------------------|--|---|
| Clause | Test Items/requirement | Test Result Summary |
| <u>5</u> | <u>Requirements</u> | |
| 5.1 | General | |
| 5.1.1 | Materials and construction | PASS |
| 5.1.2 | Design | The sample is composed of a filter layer that is bonded between layers of fabric. The sample was not disintegrated, split or tear during intended use, and no objectionable matter was observed by visual assessment. PASS |
| | | Length: 10.9 cm (Folded); 15.5 cm (Expanded) Width: 16.1 cm (Folded); 12.5 cm (Expanded) |
| 5.2 | Performance requirements | |
| 5.2.2^ | Bacterial filtration efficiency (BFE) | > 98% |
| 5.2.3^ | Breathability (Differential Pressure) | < 60 Pa/cm ² |
| 5.2.4 | Splash resistance | Penetration not seen at 16.0 kPa |
| 5.2.5^ | Microbial cleanliness (Bioburden) | ≤ 30 cfu/g |
| 5.2.6 | Biocompatibility | Not Conducted as per client requested |
| 5.2.7 | Summary of performance requirements | See Table 1 |
| <u>6</u> | Marking, labelling and packaging | Not Conducted as per client requested |

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With reference to EN 14683:2019+AC:2019 Medical face masks - Requirements and test methods

Table 1 Performance requirements for medical face masks

| Characteristics | Type I ^a | Type II | Type IIR |
|---|---------------------|--------------|----------|
| Bacterial filtration efficiency (BFE), % | ≥ 95 | ≥ 98 | ≥ 98 |
| Differential pressure, Pa/cm ² | < 40 | < 40 | < 60 |
| Splash resistance (kPa) # | Not Required | Not Required | ≥ 16.0 |
| Microbial cleanliness (cfu/g) | ≤ 30 | ≤ 30 | ≤ 30 |

^a Type I medical face masks should only be used for patients and other persons to reduce the risk of spread of infections particularly in epidemic or pandemic situations. Type I masks are not intended for use by healthcare professionals in an operating room or in other medical settings with similar requirements.

- An acceptable quality limit of 4,0 % is met for a single sampling plan when 29 or more of the 32 tested specimens show "pass" results.

Note:

Results of compliance for tests requested is justified according to decision rule based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, $w = U_{95}$) as stated in ILAC-G8:09/2019 Clause 4.2.3.

"Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.".

"Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.

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Result 1 Bacterial filtration efficiency (BFE) (With reference to EN14683:2019+AC:2019 Appendix B)

| Test Side Pre-Conditioning Dimensions of test specimen BFE Test Area BFE Flow Rate Test bacteria Positive Control Average Negative Monitor Count | : | White Colour (Inside) Minimum of 4 hours at 21±5°C and 85±5% R.H. 216 mm x 165 mm 49 cm ² 28.3 l/min Staphylococcus aureus ATCC 6538 2.0 x 10 ³ CFU < 1 CFU |
|---|---|--|
| Negative Monitor Count | : | < 1 CFU |

| Test Specimen | Percent BFE (%) |
|---------------|-----------------|
| 1 | 99.7 |
| 2 | 99.6 |
| 3 | 99.8 |
| 4 | 99.6 |
| 5 | 99.7 |

Result 2 Determination of Breathability (With reference to EN14683:2019+AC:2019 Appendix C Differential pressure)

| Test Side:White Colour (InsicPre-Conditioning:Minimum of 4 hourTest Area:4.9 cm²Flow Rate:8 l/min | s at 21±5℃ and 85±5% R.H. |
|---|---------------------------|
|---|---------------------------|

| Test Location | ΔP (Pa/cm ²) | | | | |
|---------------|--------------------------|------------|------------|------------|------------|
| Test Location | Specimen 1 | Specimen 2 | Specimen 3 | Specimen 4 | Specimen 5 |
| Top Centre | 31.4 | 35.3 | 31.4 | 35.3 | 33.4 |
| Centre | 39.2 | 45.1 | 40.2 | 39.2 | 42.2 |
| Bottom Centre | 38.3 | 44.1 | 46.1 | 43.2 | 43.2 |
| Centre Left | 51.0 | 51.0 | 46.1 | 54.0 | 49.1 |
| Centre Right | 43.2 | 47.1 | 38.3 | 45.1 | 48.1 |
| Average | 40.6 | 44.5 | 40.4 | 43.4 | 43.2 |

Result 3 Splash resistance (With reference to ISO 22609:2004)

| Test Side | : | White Colour (Outside) |
|----------------------------|---|---|
| Pre-Conditioning | : | Minimum of 4 hours at 21±5°C and 85±5% R.H. |
| Test Condition | : | 21±5°C and 85±5% R.H. |
| Test Pressure | : | 16.0 kPa (120 mmHg) |
| No of Test Specimen Tested | : | 32 |
| No of Test Specimen Passed | : | 32 |

| Test Specimen # | Synthetic Blood Penetration |
|-----------------|-----------------------------|
| 1-32 | None Seen |

Note: Targeting-plate method was used.

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Result 4 Microbial cleanliness (Bioburden)(With reference to EN 14683:2019+AC:2019 Annex D)

Test Methods Bioburden

The analyses were performed with reference to EN 14683:2019+AC:2019 Annex D and ISO 11737-1:2018

| | | <u>HC210300001035-101</u> Total Bioburden, | Total Bioburden, |
|----------------|-------------|---|------------------|
| Article Number | Mask Weight | cfu/mask | cfu/g |
| 1 | 4.32g | 51 | 11.81 |
| 2 | 4.40g | 36 | 8.18 |
| 3 | 4.34g | 36 | 8.29 |
| 4 | 4.42g | 33 | 7.47 |
| 5 | 4.32g | 72 | 16.67 |

| Recovery Efficiency | Correction Factor |
|---------------------|-------------------|
| 74.9% | 1.3 |

Microbial Cleanliness (Bioburden): 14.0 cfu/g

Standard requirement[#]: ≤30 cfu/g

Note:

- 1. Results reported on the submitted sample on an as received basis.
- 2. < = less than
- 3. cfu = Colony Forming Units
- 4. Extraction method: by stomacher at 250rpm for 5 minutes
- 5. # EN 14683:2019+AC:2019 Medical face masks Requirements and test methods Performance requirements for medical face masks Microbial cleanliness

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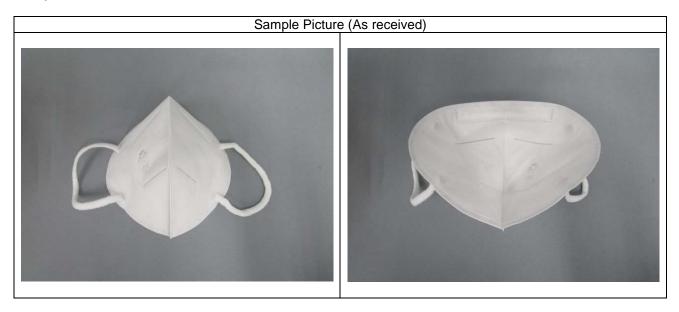
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Sample Photo:



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*** End of Report ***

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