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Barisal Surgical Limited

Plot-B-20, Road -1, Kanchpur BSCIC, Sonargoan,
Narayangonj, Bangladesh.

The following sample(s) was/were submitted and identified by/on behalf of the customer as:

The sample was not drawn by SGS Bangladesh Limited

Sample Description : Surgical Mask
End Use : Surgical Mask
Colour Name : (A) Received Colour: Blue
Buyer : Self
Manufacturer : Barisal Surgical Limited
Supplier : /
Order No. : /
Style No. : /
Ref. No. : /
Brand : G-Mask
Batch No : FME-002/20
Fibre Content : /
Sample Received Quantity : 06 Pcs Mask
Country of Origin : /
Country of Destination : /
Previous Report No. : /

JOE NO: 4568763

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Sample Receiving Date : 23-June-2020
Test Performing Period : 24-June-2020 To 26-June-2020
Wash Care Instruction : /
Testing Program : /
Test(S) Required : Selected test(s) as requested by applicant.

Sign for and on behalf of

SGS Bangladesh Ltd.

Muin Uddin
Physical Lab Manager

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Sample Type: **Surgical Mask**

Batch No.: **FME-002/20**

Table 1: Parameter Analysis of Biomedical PPE - Surgical Mask

| Serial No. | Test Items | Standard Parameters | Unit | Result | | Comment |
|------------|--|-----------------------|------------------------------------|---------------|------------------------------|------------------------|
| | | | | Average Value | Specimen Number (n), St. Dev | |
| 01. | Breathing Resistance-Differential Pressure | EN 14683:2019 Annex C | mmH ₂ O/cm ² | 3.12 | (5), 2.0 | Meets Level 1, 2, 3 |
| 02. | Particulate Filtration Efficiency (F2299, or equivalent) @ 0.1 μ , 0.3 μ * | F2299:2003: R2017 | % | / | / | Not Capable in our Lab |
| 03. | Splash Resistance/ Synthetic Blood Resistance ((ASTM F1862-07), or equivalent) | ASTM F1862: 2017 | mmHg | / | / | Not Capable in our Lab |
| 04. | Test Bacterial Filtration Efficiency (EN14683, ASTM F2101, or equivalent) | ASTM F2101: 2019 | % | / | / | Not Capable in our Lab |

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Result Analysis and Overall Comment:

Breathing Resistance- Differential Pressure test result meets Level 1, 2, 3 requirements.

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Personal Protective Equipment (PPE): Surgical Mask

Table 2: List of Test Parameters with Recommended Values

| Serial. No | Test Parameter | Unit | Minimum/Maximum Requirement (as per ASTM F2100) | | | Remarks |
|------------|--|-------------------------------------|---|-----------------|-----------------|---|
| | | | Level 1 barrier | Level 2 barrier | Level 3 barrier | |
| 1. | Breathing Resistance, Differential Pressure (EN 14683:2019, ASTM F2100, or equivalent) | mm H ₂ O/cm ² | <5.0 | <6.0 | <6.0 | ASTM F2100 |
| 2. | Particulate Filtration Efficiency (F2299, or equivalent) @ 0.1 μ, 0.3 μ* | % | ≥95 | ≥98 | ≥98 | |
| 3. | Splash Resistance/ Synthetic Blood Resistance (ASTM F1862-07), or equivalent) | mmHg | 80 | 120 | 160 | * PPE importers must present relevant documents and certification |
| 4. | Test Bacterial Filtration Efficiency (EN14683, ASTM F2101, or equivalent) | % | ≥95 | ≥98 | ≥98 | |

| Serial. No | Test Parameter | Unit | Minimum/Maximum Requirement (as per EN 14683:2019) | | | | Remarks |
|------------|--|--------------------|--|---------|---------|----------|---------------|
| | | | Type I | Type II | Type IR | Type IIR | |
| 1. | Breathing Resistance, Differential Pressure (EN 14683:2019, ASTM F2100, or equivalent) | Pa/cm ² | <40 | <40 | <40 | <60 | EN 14683:2019 |
| 2. | Particulate Filtration Efficiency (F2299, or equivalent) @ 0.1 μ, 0.3 μ* | % | ≥95% | ≥98% | ≥95% | ≥98% | ASTM F2100 |

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|----|---|------|------|------|------|------|---|
| 3. | Splash Resistance/ Synthetic Blood Resistance ((ASTM F1862-07), or equivalent, e.g. ISO22609:2004 (EN)) | mmHg | 80 | 120 | 80 | 160 | * PPE importers must present relevant documents and certification |
| 4. | Test Bacterial Filtration Efficiency (EN14683, ASTM F2101, or equivalent) | % | ≥95% | ≥98% | ≥95% | ≥98% | |

* The alternate protocol/provision is allowed temporarily until test facilities are developed and established locally, as per proposed standard(s).

** Acceptance Quality Limit: AQL 4%

Footnote: The above parameters were developed based on the WHO specifications for personal protective equipment as mentioned in the Disease Commodity Package for COVID-19, and as per expert consultations overseen by DGDA to accommodate critical test parameters during the COVID-19 emergency and current capacity of local accredited testing laboratories.

Disclaimer: Test was performed as per the samples were supplied (where applicable) and valid for exactly identical samples. Wherever applicable, SGS Bangladesh Limited is not responsible for any error/omission occurred during the sampling by the client.

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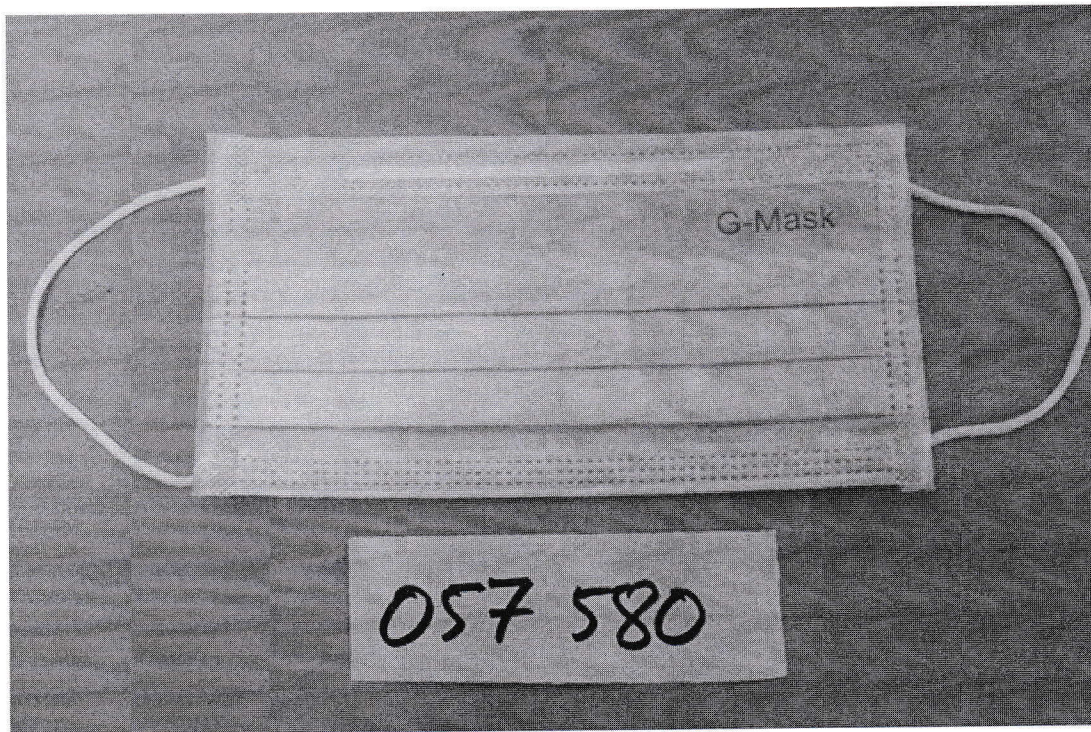
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Photo



*** End of Report ***

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