

TEST REPORT

Dysin International Ltd.

Testing & Calibration Laboratory

Skylark Point (11th Floor), 175 S.S. Nazrul Islam
Shoronee; 24/A Bijoy Nagar, Dhaka-1000, Bangladesh.

Phone: +88029359260; Fax: 880-2-9348682, 8361364

E- Mail: testinglab@dysin.com Web: www.dysin.com

Ref. No. DIL/01/2020/12/307

Report Date: 07-Jan-2021

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Manufacturer/Applicant/Client Name: Barisal Surgical Limited

Client ID: DIL-72

Manufacturer/Applicant/Client Address: Plot No:20B, Road No:01, BSCIC Industrial
Area, Kachpur, Sonargaon, Narayanganj.

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

The sample was not drawn by DYSIN INTERNATIONAL LTD.

Sample Description: Surgical Mask

Fabric Construction: N/P

Batch/Lot number: FME 002/20

Total Batch Quantity: 10 Million

Number of samples tested: 55 Pcs

Previous Report No. N/A

Previous Report Date N/A

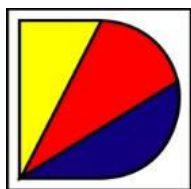
Sample Receipt Date: 26-Dec-2020

Test Started Date: 30-Dec-2020

SC Reference: 30/12/DYL196ET/BAN/20;30/12/DYL196PT/BAN/20 &
MUMT2100011

Requested Test:

- Particulate Filtration Efficiency (PFE) @ **0.3 μ** - ASTM F2299
- Breathing Resistance, Differential Pressure - EN 14683:2019
- Splash Resistance/ Synthetic Blood Resistance - ASTM F1862-07
- Test Bacterial Filtration Efficiency (BFE) @ **3.0 μ** - ASTM F2101



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Table 1: Parameter Analysis of PPE –Surgical Mask

Serial No.	Test Items	Standard Parameters	Unit	Result		Comments
				Average value	Sample Number (n), ± St. Dev	
01	Particulate Filtration Efficiency (PFE) @ 0.3 μ	ASTM F2299	%	98.09	0.09	Type II
02	Differential Pressure	EN 14683	Pa/cm ²	35.5	0.52	Type I Type-II Type-IR
03	Splash Resistance/ Synthetic Blood Resistance	ASTM F1862	mmHg	120.00	---	Type-II
04	Bacterial Filtration Efficiency (BFE) @ 3.0 μ	ASTM F2101	%	99.65	---	Type-II

Result Analysis and Overall Comment:

As per the tests performed above and the List of Test Parameters with Recommended Values as mentioned in Table-2 of this report, the submitted sample can fulfil the requirement of Personal Protective Equipment (PPE): Surgical Mask up to: **Type-II**

Note: The following tests were not performed due to inadequate capacity:

- 1) Particulate Filtration Efficiency (F2299, or equivalent) @ 0.1 μ

Prepared by:

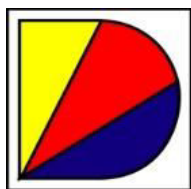
Name: Md Anamul Haque
Designation: Laboratory Manager



Countersigned by:

Name: Md. Ruhul
Designation: Quality Manager

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



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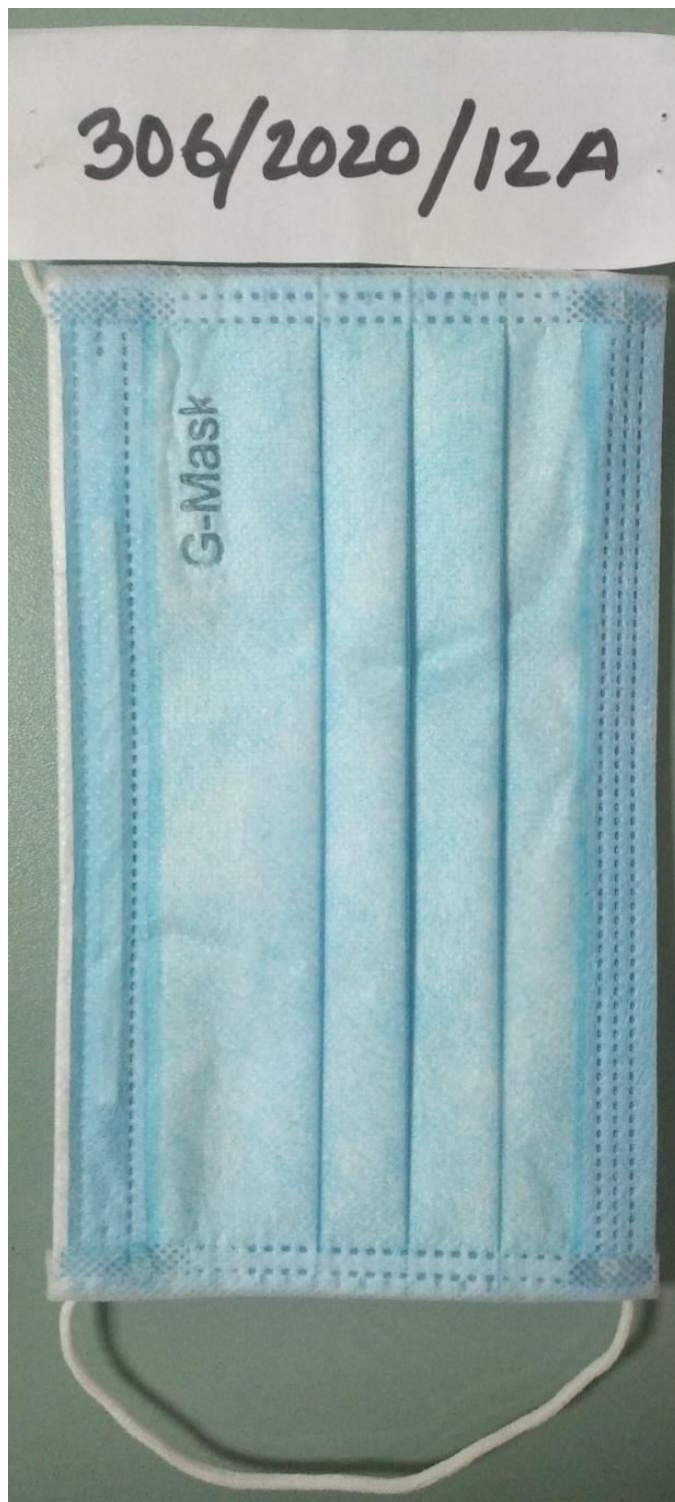
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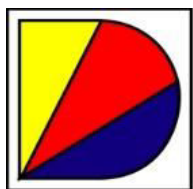
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Personal Protective Equipment (PPE): Surgical Mask



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Table 2: List of Test Parameters with Recommended Values

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
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%	

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.

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

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