

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/01/2020/06/110

Report Date: 24 Jun 2020

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Client Name: SARA LIFE STYLE LTD.

Client ID: DIL-69

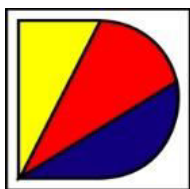
Client Address: Robin Tower, Plot#Shipo#1, Milk Vita Road, Section #7,
Mirpur, Dhaka-1216, Bangladesh

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: KN 95
Fabric Construction: N/P
Batch/Lot number: 100P3 Layer
Total Batch Quantity: N/P
Number of samples tested: 08 pcs
Previous Report No. N/A
Previous Report Date N/A
Sample Receipt Date: 22 Jun 2020
Test Started Date: 23 Jun 2020
SC Reference: 23/06/DYL55ET/BAN/20 and 23/06/DYL55PT/BAN/20
Requested Test:

- Particulate Filtration Efficiency (PFE) @ **0.3 μ** - ASTM F2299
- Breathing Resistance, Differential Pressure - EN 14683:2019



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Table 1: Parameter Analysis of PPE – KN 95 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	%	72%	0.36	Fail
02	Differential Pressure	EN 14683	mmH ₂ O/cm ²	5.21	0.07	Level 2 barrier

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: **FAIL.**

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

- 1) Splash Resistance/ Synthetic Blood Resistance ((ASTM F1862-07), or equivalent, e.g. ISO22609:2004 (EN)) Synthetic Blood Penetration Test (ASTM F1670 or equivalent)
- 2) Test Bacterial Filtration Efficiency (EN14683, ASTM F2101, or equivalent)

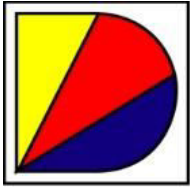
Tests Performed by:

Name: Md Anamul Haque
Designation: Laboratory Manager



Countersigned by:

Name: Md. Ruhul
Designation: Quality Manager



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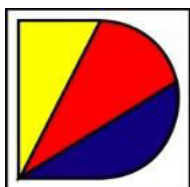
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Personal Protective Equipment (PPE): KN 95 Mask



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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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)	mmH ₂ O/cm ²	<5	<6	<6	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, e.g. ISO22609:2004 (EN))	mmHg	80	120	80	* PPE importers must present relevant documents and certification
4.	Test Bacterial Filtration Efficiency (EN14683, ASTM F2101, or equivalent)	%	≥95%	≥98%	≥95%	

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 *****