



TEST REPORT NO: 169324

Date: 12 May 2021

SHIMYATECH LTD
LIVERPOOL SCIENCE PARK
IC1
131 MOUNT PLEASANT
LIVERPOOL
L3 5TF
UNITED KINGDOM

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

Retailer	PPE Testing
Description of article	FACE MASK WITH REMOVABLE FILTER
Retailer style number	BLACK
Batch No.	NOT PROVIDED
Order No./ Buyer	NANOXX-REMOVABLE
Quality/Fibre Composition	EXTERNAL=COTTON, FILTER=POLYPROPYLENE, COTTON
Date Sample Received/Test Started:	19 April 2021

Tests	Pass	Fail	Remarks
EN14683 Differential Pressure (Breathability)			See results
EN14683 BFE Bacterial Filtration Efficiency			See results

Signature

M. Harrison Laboratory Manager

For and on behalf of
SGS United Kingdom Ltd

All samples are conditioned to ISO 139 where conditioning is required (unless otherwise stated)

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Customer: SHIMYATECH LTD **Test Report No:** 169324

Test Results

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

Test Side : Black colour (outside)(As client's specification)
 Pre-Conditioning : Minimum of 4 hours at 21±5°C and 85±5% R.H
 Dimensions of the test specimen : 238 mm x 147 mm
 BFE Test Area : 49cm²
 BFE Flow Rate : 28.3 l/min
 Test bacteria : Staphylococcus aureus ATCC 6538
 Positive Control Average : 2.8 µm
 Negative Monitor Count : 2.4 x 10³ CFU

Test Specimen	Percent BFE (%)
1	46.1
2	49.3
3	50.0
4	45.2
5	37.9

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

Test Side : Black colour (outside) (As client's specification)
 Pre-Conditioning : Minimum of 4 hours at 21±5°C and 85±5% R.H
 Test Area : 4.9cm²
 Flow Rate : 8 l/min

Test Location	ΔP (Pa/cm ²)				
	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5
Top Centre	25.5	24.5	26.5	28.4	29.4
Centre	36.3	37.3	38.3	37.3	43.2
Bottom Centre	32.4	36.3	42.2	35.3	43.2
Centre Left	39.2	40.2	41.2	41.2	45.1
Centre Right	47.1	46.1	41.2	42.2	40.2
Average	36.1	36.9	37.9	36.9	40.2

*Sub contracted to a ilac-MRA & IAS (TL-817) accredited lab

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Customer:

SHIMYATECH LTD

Test Report No:

169324

Test Results



End of Report

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