

SGS IBR LABORATORIES TEST REPORT

SCOPE OF WORK

Performance Testing of Medical Face Masks to
*ASTM F2100 Standard Specification for Performance of
Materials Used in Medical Face Masks, 2020 Edition*

REPORT NUMBER

104481484CRT-142

ISSUE DATE

March 29, 2021

PAGES

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DOCUMENT CONTROL NUMBER

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TEST REPORT

Issued March 29, 2021

Intertek Report No. 104481484CRT-142
Intertek Project No. G104481484

CLIENT

SGS IBR Laboratories
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Grass Lake, MI 49240
USA

TEST STANDARD

ASTM F2100 *Standard Specification for Performance of Materials Used in Medical Face Masks*, 2020 Edition

AUTHORIZATION

Quote Number: Qu-01114387-1

SAMPLE IDENTIFIED BY THE CLIENT AS

Product Type: Face Mask
Reference Number: JN 23611

SAMPLE INFORMATION

Date(s) Samples Received: January 22, 2021
Condition of Samples: Production Run
Date(s) of Testing: March 18, 2021

TEST INFORMATION

ASTM F2101 *Bacterial Filtration Efficiency*
EN 14683:2019 Annex C *Differential Pressure*
ASTM F2299 *Sub-Micron Particulate Filtration*
ASTM F1862 *Resistance to Penetration by Synthetic Blood*
16 CFR 1610 *Flammability*

Test data attached
Not tested under this project
Not tested under this project
Not tested under this project
Not tested under this project

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SECTION 1


CONCLUSION


This test report represents the testing covered by proposal number Qu-01114387-1.

The observations and test results in this report are relevant only to the sample tested. Intertek makes no representations or warranties, express or implied, regarding units that were not tested including, but not limited to, units that may be part of the same lot.

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Project Owner: Jennifer Breed
Title: Tech Writer
Signature: 
Date: March 29, 2021

Project Reviewer: Jason Allen
Title: Technical Advisor
Signature: 
Date: March 29, 2021

REPORT REVISIONS

Date / Project #	Project Handler/ Reviewer	Description of Change
		None

TEST REPORT

SECTION 2

ASTM F2100-20 TEST DATA

BACTERIAL FILTRATION EFFICIENCY (BFE), ASTM F2101-19

Specimens conditioned for 4-hours at 20.4-22.1°C and 83-86%RH

Test Set-up Information	
Area of Test Specimen (cm ²)	48.32
Specimen Side Facing Challenge	Inside
Flow Rate (LPM)	28.3 ± 0.5
Averaged + Control Plate Count	3037
Mean Particle Size (µm)	2.56,2.49

Mask Specimen- JN 23611					
	1	2	3	4	5
Stage 1	0	0	0	0	0
Stage 2	1	0	0	0	0
Stage 3	0	0	0	0	0
Stage 4	0	0	1	0	1
Stage 5	2	0	0	0	3
Stage 6	0	0	0	0	0
Plate Count Total	3	0	1	0	4
% BFE	>99.9	>99.9	>99.9	>99.9	99.87

TEST EQUIPMENT INFORMATION

Description	Control Number	Calibration Date	Calibration Due
*Timer	308-G22	10/14/2020	10/14/2022
Pipette	308-H296	VBU	
Date of Testing	3/18/2021		