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STRAX AMERICAS, INC.

TEST REPORT

SCOPE OF WORK
Performance Testing of Face Masks to
ASTM F3502 – 21 Standard Specification for
Barrier Face Coverings



REPORT NUMBER
104653485CRT-002

ISSUE DATE
June 24, 2021

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3933 US Route 11
Cortland, New York 13045
Telephone: 1-607-753-6711
Facsimile: 1-607-756-9891
www.intertek.com

TEST REPORT

Issued June 24, 2021

Intertek Report No. 104653485CRT-002
Intertek Project No. G104653485

CLIENT

STRAX AMERICAS, INC.
1867 NW 97 Ave., Ste 103
Doral, FL 33172
USA

TEST STANDARD

ASTM F3502 – 21 Standard Specification for Barrier Face Coverings
AATCC LP1- 2018e

AUTHORIZATION

Quote No.:	Qu-01159720-2

SAMPLE IDENTIFIED BY THE CLIENT AS

Product Type:	Barrier Face Coverings
Brand Name:	AirPOP
Model:	Active Mask filters (white) Light SE masks (Black)

SAMPLE INFORMATION

Date(s) Samples Received:	June 1, 2021
Condition of Samples:	Production Run
Date(s) of Testing:	June 21, 2021 Through June 22, 2021

TEST INFORMATION	STATUS	TESTING LOCATION
Section 8.1: Sub-micron Particulate Filtration	Test data attached	Intertek-Cortland, NY
Section 8.2: Air Flow Resistance	Test data attached	Intertek-Cortland, NY
16 CFR 1610 Flammability	Test data attached	Intertek-Cortland, NY

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SECTION 1
CONCLUSION

This test report represents the testing covered by quote Qu-01159720-2.

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.

If there are any questions regarding the results contained in this report, or any other services offered by Intertek, please do not hesitate to contact the undersigned.

Please note this Test Report does not represent authorization for the use of any Intertek certification marks.

Project Owner:	Steven Morey	**Project Reviewer:**	Jason Allen
Title:	Technician	**Title:**	Technical Advisor
Signature:		**Signature:**	
Date:	June 24, 2021	**Date:**	June 24, 2021

REPORT REVISIONS

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

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TEST REPORT

SECTION 2

REPORT OF TESTING AND OTHER INFORMATION REQUIRED BY ASTM F3502-21, SPECIFICATION ON BARRIER FACE COVERINGS	
Manufacturer Name	STRAX AMERICAS, INC.
Product Name or Model number	Active Mask filters (white)
Laboratory Name/Address	Intertek Testing Services NA, Inc./Cortland, NY 13045
Flow Rate Tested at to Achieve 10 ±0.5 cm/s (LPM)	47.7
Laboratory Accreditation Credentials	Lab Accreditation

Sub-micron Particulate Filtration Efficiency (Section 8.1)							**Test Date:**			**22-Jun-21**	
Test Values(%) by Specimen											
Condition	**Sample 1**	**Sample 2**	**Sample 3**	**Sample 4**	**Sample 5**	**Sample 6**	**Sample 7**	**Sample 8**	**Sample 9**	**Sample 10**	**Report Value**
Pristine*	98.3	99.1	98.5	98.3	98.6	98.0	99.1	97.9	98.8	97.7	97
After Wash**	98.1	98.1	98.2	97.1	98.6	98.2	99.2	98.1	98.8	98.0	

Air Flow Resistance (Section 8.2)							**Test Date:**			**22-Jun-21**	
Test Values (mm H2O) by Specimen											
Condition	**Sample 1**	**Sample 2**	**Sample 3**	**Sample 4**	**Sample 5**	**Sample 6**	**Sample 7**	**Sample 8**	**Sample 9**	**Sample 10**	**Report Value**
Pristine*	5.2	5.6	5.5	5.4	5.2	5.4	6.1	5.2	5.4	5.6	8
After Wash**	7.2	6.0	7.5	6.5	6.2	7.0	6.3	7.6	8.2	6.2	

*** Description of Condition if Other than Pristine (identify where performed)**	Intertek Cortland, NY- Pre Conditioning according to section 8.1.1.5 of the ASTM 3502 Standard.
**** Description of Laundering or Cleaning Conditions Applied (identify where performed)**	Clean with a 70% alcohol wipe only (as per in pack instructions) 10x
Description of Approach Applied as Part of Product Design Analysis (provide supporting documentation, as needed)	Evaluated By Client
Results of quantitative leakage assessment with leakage ration (if applicable Document full findings in separate report)	N/A

Overall Performance Classification	**Sub-micron Particulate Filtration Efficiency**	**Level 2**	**Air Flow Resistance**	**Level 1**

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TEST REPORT

REPORT OF TESTING AND OTHER INFORMATION REQUIRED BY ASTM F3502-21, SPECIFICATION ON BARRIER FACE COVERINGS	
Manufacturer Name	STRAX AMERICAS, INC.
Product Name or Model number	Light SE masks (Black)
Laboratory Name/Address	Intertek Testing Services NA, Inc./Cortland, NY 13045
Flow Rate Tested at to Achieve 10 ±0.5 cm/s (LPM)	47.8
Laboratory Accreditation Credentials	Lab Accreditation

Sub-micron Particulate Filtration Efficiency (Section 8 .1)						**Test Date:**		**22-Jun-21**		
Test Values(%) by Specimen										
Condition	**Sample 1**	**Sample 2**	**Sample 3**	**Sample 4**	**Sample 5**	**Sample 6**	**Sample 7**	**Sample 8**	**Sample 9**	**Sample 10**	**Report Value**
Pristine*	98.6	98.8	98.7	98.5	98.6	98.6	98.0	98.5	98.4	98.4	97
After Wash**	98.6	98.7	98.7	98.5	98.6	98.7	98.0	98.6	98.5	98.3	

Air Flow Resistance (Section 8.2)						**Test Date:**		**22-Jun-21**		
Test Values (mm H2O) by Specimen										
Condition	**Sample 1**	**Sample 2**	**Sample 3**	**Sample 4**	**Sample 5**	**Sample 6**	**Sample 7**	**Sample 8**	**Sample 9**	**Sample 10**	**Report Value**
Pristine*	7.4	7.1	7.6	6.6	6.2	7.4	6.4	7.1	8.1	6.7	8
After Wash**	7.0	6.8	7.2	6.7	6.3	7.2	5.8	6.2	7.3	6.9	

*** Description of Condition if Other than Pristine (identify where performed)**	Intertek Cortland, NY- Pre Conditioning according to section 8.1.1.5 of the ASTM 3502 Standard.
**** Description of Laundering or Cleaning Conditions Applied (identify where performed)**	Clean with a 70% alcohol wipe only (as per in pack instructions) 10x
Description of Approach Applied as Part of Product Design Analysis (provide supporting documentation, as needed)	Evaluated By Client
Results of quantitative leakage assessment with leakage ration (if applicable Document full findings in separate report)	N/A

Overall Performance Classification	**Sub-micron Particulate Filtration Efficiency**	**Level 2**	**Air Flow Resistance**	**Level 1**

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TEST REPORT

SECTION 6

16 CFR 1610 TEST DATA
FLAMMABILITY OF CLOTHING TEXTILES

Surface type: Plain, Single Layer
Tested side: Face
Model : Active Mask filters (white)

Prelminary Test - Original State	
Length Direction	**Burn Time (s)**
Up	DNI
Down	DNI
Width Direction	**Burn Time (s)**
Up	DNI
Down	DNI

Final Test - Original State Width Up Direction	
Specimen	**Burn Time (s)**
1	DNI
2	DNI
3	DNI
4	DNI
5	DNI

Classification:	Class 1, Normal Flammability

Note: Sample is one-time use item, flammability testing performed in original state only

Test Result Codes: Plain Surface Fabrics	
DNI	Did not ignite (no time)
IBE	Ignited, but extinguished (no time

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TEST REPORT

SECTION 6

16 CFR 1610 TEST DATA
FLAMMABILITY OF CLOTHING TEXTILES

Surface type: Plain, Single Layer
Tested side: Face
Model: Light SE masks (Black)

Prelminary Test - Original State	
Length Direction	**Burn Time (s)**
Up	DNI
Down	DNI
Width Direction	**Burn Time (s)**
Up	DNI
Down	DNI

Final Test - Original State Width Up Direction	
Specimen	**Burn Time (s)**
1	DNI
2	DNI
3	DNI
4	DNI
5	DNI

Classification:	Class 1, Normal Flammability

Note: Sample is one-time use item, flammability testing performed in original state only

Test Result Codes: Plain Surface Fabrics	
DNI	Did not ignite (no time)
IBE	Ignited, but extinguished (no time

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TEST REPORT

SECTION 4

PHOTOS

Active Mask filters (white)



1. Printed Adult Medium Face Form ISO # 16900-5-2016



2. Mask Under Test



3. Mounting of Mask



4. Test Set up

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TEST REPORT

Light SE masks (Black)



1. Printed Adult Medium Face Form ISO # 16900-5-2016



2. Mask Under Test



3. Mounting of Mask



4. Test Set up

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TEST REPORT

SECTION 5
EQUIPMENT LIST AND TESTING DATES

Sub-micron Particulate Filtration Efficiency (Section 8.1)

Description	Control Number	Calibration Date	Calibration Due
Conditioning Monitor	308-H323	8/25/2020	8/25/2021
Timer	308-H309	8/13/2020	8/13/2021
Scale	308-S940	8/24/2020	8/24/2021
Printed Medium Face Form ISO # 16900-5-2016	308-H387	VBU	VBU
TSI 8130a Filter Tester	308-H399	VBU	VBU
2inch Die	308-J156	12/5/2020	12/5/2021
Date of Testing	6/22/2021		

Air Flow Resistance (Section 8.2)

Description	Control Number	Calibration Date	Calibration Due
Conditioning Monitor	308-H323	8/25/2020	8/25/2021
Timer	308-H309	8/13/2020	8/13/2021
Scale	308-S940	8/24/2020	8/24/2021
Printed Medium Face Form ISO # 16900-5-2016	308-H387	VBU	VBU
TSI 8130a Filter Tester	308-H399	VBU	VBU
2inch Die	308-J156	12/5/2020	12/5/2021
Date of Testing	6/22/2021		

16 CFR 1610 TEST DATA

Description	Control Number	Calibration Date	Calibration Due
Circulating Oven	308-H223	3/2/2021	3/2/2022
Flame Chamber	US20041501	VBU	VBU

Date of Testing	6/24/2021