

## Test Report

No.T32120310038SN

Date: Oct 06, 2021

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MASKON LIMITED

ROOM C, 16/F., MG TOWER, 133 HOI BUN ROAD, KWUN TONG, KOWLOON, HONG KONG

The following samples were submitted and identified by/on behalf of the client as:

PROTECTIVE FACE MASK

Case No. : CA321203012889

Lot No. / Batch Code : NOT PROVIDED

Sample Description : BLUE MASK (WINTRY), GREEN LAKE MASK (BREEZY),  
GREY MASK (ALOOF), PINK MASK (JAUNTY), WHITE MASK (WHITE),  
BLACK MASK (BLACK), PURPLE MASK (DAINTY),  
DARK GREEN MASK (WICKED), BERRY MASK (SERENE),  
ORANGE MASK (JAZZY), YELLOW MASK (CHIPPER),  
LIGHT BROWN MASK (HAZY)

Country of Origin : HONG KONG

Country of Destination : HONG KONG

Sample Receiving Date : SEP 10, 2021 AND SEP 28, 2021

Testing Period : SEP 10 TO SEP 24, 2021 AND SEP 28 TO OCT 06, 2021

Test Requested	Conclusion
ASTM F2100-19 Standard Specification for Performance of Materials Used in Medical Face Masks (Selected test parts as specified by client)	PASS (Level 3)
Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)(Selected test parts as specified by client)	PASS

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
SGS Hong Kong Ltd.Au Kam Chi, Gigi  
Technical ManagerSigned for and on behalf of  
SGS Hong Kong Ltd.Tsang Chuk Hai  
Senior Microbiologist

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## ASTM F2100-19 Standard Specification for Performance of Materials Used in Medical Face Masks

- Scope : This specification covers testing and requirements for materials used in the construction of medical face masks that are used in providing healthcare services such as surgery and patient care. This specification provides for the classification of medical face mask material performance.
- Number of Specimen : 120 pcs of complete product (Blue)

Clause	Test Items/requirement	Test Result Summary
<u>5</u> <u>6</u> <u>6.1</u>	<u>Classification</u> <u>Requirements</u> The properties of the medical face mask material shall conform to the specifications requirements in Table 1, as tested in accordance with Section 9.	See Table 1
	^Bacterial filtration efficiency (ASTM F2101)	> 98%
	^Differential pressure (EN 14683:2019 Annex C)	< 6.0 mm H <sub>2</sub> O/cm <sup>2</sup>
	^Sub-Micron Particulate Filtration (ASTM F2299)	> 98%
	Resistance to penetration by synthetic blood (ASTM F1862)	Penetration not seen at 160 mm Hg
6.2	^Flammability 16 CFR Part 1610	Class 1

## Note:

- ^ Results of compliance for tests requested is justified according to decision rule based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability,  $w = U_{95}$ ) as stated in ILAC-G8:09/2019 Clause 4.2.3.
- \*Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.\*
- \*Fail - One or more measured values were observed out of tolerance at the points tested\*. The specific false reject risk is up to 2.5%.

Table 1 Medical Face Mask Material Requirements by Performance Level

Characteristics	Level 1 Barrier	Level 2 Barrier	Level 3 Barrier
Bacterial filtration efficiency, %	≥ 95	≥ 98	≥ 98
Differential pressure, mm H <sub>2</sub> O/cm <sup>2</sup>	< 5.0	< 6.0	< 6.0
Sub-micron particulate filtration efficiency at 0.1 micron, %	≥ 95	≥ 98	≥ 98
Resistance to penetration by synthetic blood, minimum pressure in mm Hg for pass result <sup>#</sup>	80	120	160
Flame spread	Class 1	Class 1	Class 1

<sup>#</sup> - An acceptable quality limit of 4.0 % is met for a single sampling plan when 29 or more of the 32 tested specimens show "pass" results.

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## Result 1 Bacterial filtration efficiency ASTM F2101-19

Test Side	: Side without earloop attached (Inside)(Blue)
Pre-Conditioning	: Minimum of 4 hours at 21±5°C and 85±5% R.H.
Dimensions of test specimen	: 172 mm x 97 mm
BFE Test Area	: 49 cm <sup>2</sup>
BFE Flow Rate	: 28.3 l/min
Test bacteria	: Staphylococcus aureus ATCC 6538
Mean Particle Size	: 2.8 µm
Positive Control Average	: 2.3 x 10 <sup>3</sup> CFU
Negative Monitor Count	: < 1 CFU

Test Specimen	Percent BFE (%)
1	99.9
2	99.9
3	99.9
4	99.9
5	99.9

Note: Plate count total for each stage can be provided upon request.

## Result 2 Differential pressure EN14683:2019+AC:2019 Appendix C

Test Side	: Side without earloop attached (Inside)(Blue)
Pre-Conditioning	: Minimum of 4 hours at 21±5°C and 85±5% R.H.
Test Area	: 4.9 cm <sup>2</sup>
Flow Rate	: 8 l/min

Test Location	ΔP (mm H <sub>2</sub> O/cm <sup>2</sup> )				
	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5
Top Centre	4.0	3.7	3.7	3.6	3.6
Centre	4.1	4.0	4.0	4.0	3.9
Bottom Centre	3.7	4.0	3.7	3.8	4.0
Centre Left	3.9	4.2	3.9	4.0	3.8
Centre Right	4.1	3.5	3.8	3.8	3.9
Average	4.0	3.9	3.8	3.8	3.8

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## Result 3 Determining the Initial Efficiency of Materials Used in Medical Face Masks to Penetration by Particulates Using Latex Spheres (ASTM F2299/F2299M-03 (Reapproved 2017))

Test Side : Side with earloop attached (Outside)(Blue)  
 Pre-Conditioning : Minimum of 4 hours at 21±3°C and 30-50±5% R.H.  
 Test Condition : 21±3°C and 50±5% R.H.  
 Test Area : 41.61 cm<sup>2</sup>  
 Face Velocity : 10.02 cm/s  
 Particle Size : 0.1 µm (+/-7.5% CV) Latex Microspheres  
 Average Filtration Efficiency : 99.44%  
 Standard Deviation : 0.03

Test Specimen	Pressure Drop (inH <sub>2</sub> O)	Downstream Particle Count	Upstream Particle Count	Filtration Efficiency (%)
1	0.316	1088	191804	99.43%
2	0.296	986	172687	99.43%
3	0.314	1162	205077	99.43%
4	0.339	991	191404	99.48%
5	0.313	961	160906	99.40%

Note: The procedure incorporated a non-neutralized challenge. The non-neutralized aerosol is also specified in the FDA guidance document on surgical face masks.

## Result 4 Resistance to penetration by synthetic blood ASTM F1862/F1862M-17

Test Side : Side with earloop attached (Outside)(Blue)  
 Pre-Conditioning : Minimum of 4 hours at 21±5°C and 85±5% R.H.  
 Test Condition : 21±5°C and 85±10% R.H.  
 Test Pressure : 160 mmHg  
 No of Test Specimen Tested : 32  
 No of Test Specimen Passed : 32

Test Specimen #	Synthetic Blood Penetration
1-32	None Seen

Note: Sample was tested in the stage of spreading the pleats out when mounted on the test fixture.

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## Result 5 Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)

Sample : Fabric cut from submitted sample (Blue)  
Fabric Surface : Plain (Face)  
Test Specimen Direction : Length

<u>As Received</u>		
	Flame Spread (sec.)	Burn Code
(1)	--	DNI
(2)	--	DNI
(3)	--	DNI
(4)	--	DNI
(5)	--	DNI
<b>Flammability Classification:</b>		Class 1
<b>Requirement:</b>		Class 1

## Remarks:

- Class 1 – Normal Flammability  
Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.  
Test Criteria for plain surface textile fabric:  
(A) There are no burn times; or  
(B) There is only one burn time and it is equal to or greater than 3.5 seconds; or  
(C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.
- Disposable fabrics and garments shall not apply to be refurbished before testing.

Burn Code Description:

DNI = Did not ignite

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## Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)

Sample : Fabric cut from submitted sample (Green Lake)  
Fabric Surface : Plain (Face)  
Test Specimen Direction : Length

As Received		
	Flame Spread (sec.)	Burn Code
(1)	--	DNI
(2)	--	DNI
(3)	--	DNI
(4)	--	DNI
(5)	--	DNI
Flammability Classification:		Class 1
Requirement:		Class 1

## Remarks:

- Class 1 - Normal Flammability  
Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.  
Test Criteria for plain surface textile fabric:  
(A) There are no burn times; or  
(B) There is only one burn time and it is equal to or greater than 3.5 seconds; or  
(C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.
- Disposable fabrics and garments shall not apply to be refurbished before testing.

Burn Code Description:

DNI = Did not ignite

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## Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)

Sample : Fabric cut from submitted sample (Grey)  
Fabric Surface : Plain (Face)  
Test Specimen Direction : Length

<u>As Received</u>		
	Flame Spread (sec.)	Burn Code
(1)	--	DNI
(2)	--	DNI
(3)	--	DNI
(4)	--	DNI
(5)	--	DNI
<b>Flammability Classification:</b>		Class 1
<b>Requirement:</b>		Class 1

## Remarks:

- Class 1 – Normal Flammability  
Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.  
Test Criteria for plain surface textile fabric:  
(A) There are no burn times; or  
(B) There is only one burn time and it is equal to or greater than 3.5 seconds; or  
(C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.
- Disposable fabrics and garments shall not apply to be refurbished before testing.

Burn Code Description:

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## Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)

Sample : Fabric cut from submitted sample (Pink)  
Fabric Surface : Plain (Face)  
Test Specimen Direction : Length

<u>As Received</u>		
	Flame Spread (sec.)	Burn Code
(1)	--	DNI
(2)	--	DNI
(3)	--	DNI
(4)	--	DNI
(5)	--	DNI
<b>Flammability Classification:</b>		Class 1
<b>Requirement:</b>		Class 1

## Remarks:

- Class 1 – Normal Flammability  
Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.  
Test Criteria for plain surface textile fabric:  
(A) There are no burn times; or  
(B) There is only one burn time and it is equal to or greater than 3.5 seconds; or  
(C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.
- Disposable fabrics and garments shall not apply to be refurbished before testing.

Burn Code Description:

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## Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)

Sample : Fabric cut from submitted sample (White)  
Fabric Surface : Plain (Face)  
Test Specimen Direction : Length

<u>As Received</u>		
	Flame Spread (sec.)	Burn Code
(1)	--	DNI
(2)	--	DNI
(3)	--	DNI
(4)	--	DNI
(5)	--	DNI
<b>Flammability Classification:</b>		<b>Class 1</b>
<b>Requirement:</b>		<b>Class 1</b>

## Remarks:

## 1. Class 1 – Normal Flammability

Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.

Test Criteria for plain surface textile fabric:

- (A) There are no burn times; or  
 (B) There is only one burn time and it is equal to or greater than 3.5 seconds; or  
 (C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.

## 2. Disposable fabrics and garments shall not apply to be refurbished before testing.

Burn Code Description:

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## Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)

Sample : Fabric cut from submitted sample (Black)  
Fabric Surface : Plain (Face)  
Test Specimen Direction : Length

As Received		
	Flame Spread (sec.)	Burn Code
(1)	--	DNI
(2)	--	DNI
(3)	--	DNI
(4)	--	DNI
(5)	--	DNI
Flammability Classification:		Class 1
Requirement:		Class 1

## Remarks:

## 1. Class 1 – Normal Flammability

Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.

Test Criteria for plain surface textile fabric:

- (A) There are no burn times; or  
 (B) There is only one burn time and it is equal to or greater than 3.5 seconds; or  
 (C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.

## 2. Disposable fabrics and garments shall not apply to be refurbished before testing.

Burn Code Description:

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## Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)

Sample : Fabric cut from submitted sample (Purple)  
Fabric Surface : Plain (Face)  
Test Specimen Direction : Length

As Received		
	Flame Spread (sec.)	Burn Code
(1)	--	DNI
(2)	--	DNI
(3)	--	DNI
(4)	--	DNI
(5)	--	DNI
Flammability Classification:		Class 1
Requirement:		Class 1

## Remarks:

- Class 1 - Normal Flammability  
Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.  
Test Criteria for plain surface textile fabric:  
(A) There are no burn times; or  
(B) There is only one burn time and it is equal to or greater than 3.5 seconds; or  
(C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.
- Disposable fabrics and garments shall not apply to be refurbished before testing.

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## Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)

Sample : Fabric cut from submitted sample (Dark Green)  
Fabric Surface : Plain (Face)  
Test Specimen Direction : Length

As Received		
	Flame Spread (sec.)	Burn Code
(1)	--	DNI
(2)	--	DNI
(3)	--	DNI
(4)	--	DNI
(5)	--	DNI
Flammability Classification:		Class 1
Requirement:		Class 1

## Remarks:

## 1. Class 1 – Normal Flammability

Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.

Test Criteria for plain surface textile fabric:

- (A) There are no burn times; or  
 (B) There is only one burn time and it is equal to or greater than 3.5 seconds; or  
 (C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.

## 2. Disposable fabrics and garments shall not apply to be refurbished before testing.

Burn Code Description:

DNI = Did not ignite

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## Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)

Sample : Fabric cut from submitted sample (Berry)  
Fabric Surface : Plain (Face)  
Test Specimen Direction : Length

<u>As Received</u>		
	Flame Spread (sec.)	Burn Code
(1)	--	DNI
(2)	--	DNI
(3)	--	DNI
(4)	--	DNI
(5)	--	DNI
<b>Flammability Classification:</b>		Class 1
<b>Requirement:</b>		Class 1

## Remarks:

- Class 1 – Normal Flammability  
Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.  
Test Criteria for plain surface textile fabric:  
(A) There are no burn times; or  
(B) There is only one burn time and it is equal to or greater than 3.5 seconds; or  
(C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.
- Disposable fabrics and garments shall not apply to be refurbished before testing.

Burn Code Description:

DNI = Did not ignite

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## Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)

Sample : Fabric cut from submitted sample (Orange)  
Fabric Surface : Plain (Face)  
Test Specimen Direction : Length

<u>As Received</u>		
	Flame Spread (sec.)	Burn Code
(1)	--	DNI
(2)	--	DNI
(3)	--	DNI
(4)	--	DNI
(5)	--	DNI
<b>Flammability Classification:</b>		<b>Class 1</b>
<b>Requirement:</b>		<b>Class 1</b>

## Remarks:

- Class 1 – Normal Flammability  
Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.  
Test Criteria for plain surface textile fabric:  
(A) There are no burn times; or  
(B) There is only one burn time and it is equal to or greater than 3.5 seconds; or  
(C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.
- Disposable fabrics and garments shall not apply to be refurbished before testing.

Burn Code Description:

DNI = Did not ignite

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## Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)

Sample : Fabric cut from submitted sample (Yellow)  
 Fabric Surface : Plain (Face)  
 Test Specimen Direction : Length

As Received		
	Flame Spread (sec.)	Burn Code
(1)	--	DNI
(2)	--	DNI
(3)	--	DNI
(4)	--	DNI
(5)	--	DNI
Flammability Classification:		Class 1
Requirement:		Class 1

## Remarks:

- Class 1 – Normal Flammability  
 Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.  
 Test Criteria for plain surface textile fabric:  
 (A) There are no burn times; or  
 (B) There is only one burn time and it is equal to or greater than 3.5 seconds; or  
 (C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.
- Disposable fabrics and garments shall not apply to be refurbished before testing.

Burn Code Description:

DNI = Did not ignite

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## Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20, 2008 Edition)

Sample : Fabric cut from submitted sample (Light Brown)  
 Fabric Surface : Plain (Face)  
 Test Specimen Direction : Length

<u>As Received</u>		
	Flame Spread (sec.)	Burn Code
(1)	--	DNI
(2)	--	DNI
(3)	--	DNI
(4)	--	DNI
(5)	--	DNI
Flammability Classification:		Class 1
Requirement:		Class 1

## Remarks:

- Class 1 - Normal Flammability  
 Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.  
 Test Criteria for plain surface textile fabric:  
 (A) There are no burn times; or  
 (B) There is only one burn time and it is equal to or greater than 3.5 seconds; or  
 (C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.
- Disposable fabrics and garments shall not apply to be refurbished before testing.

Burn Code Description:

DNI = Did not ignite

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## Test Report

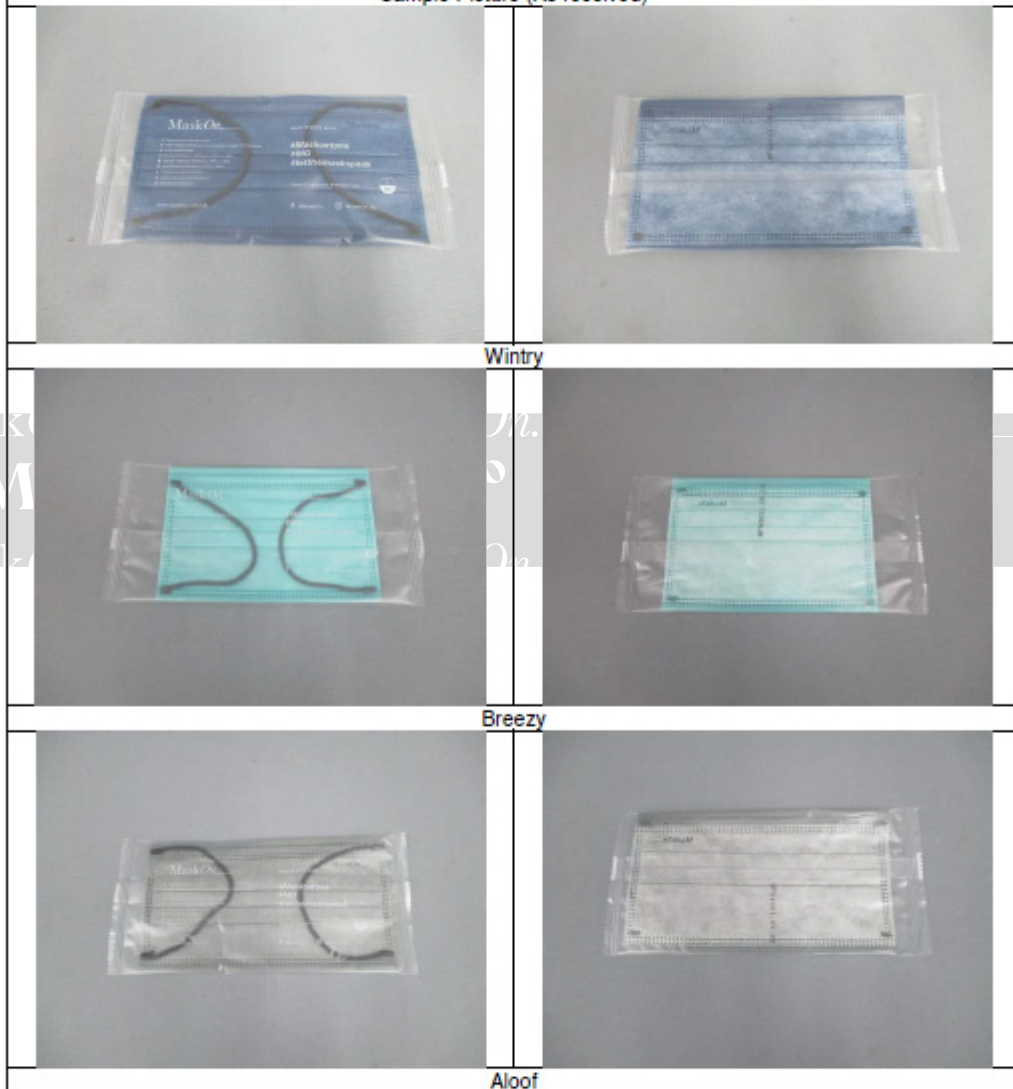
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### Sample Photo:

Sample Picture (As received)



Aloof

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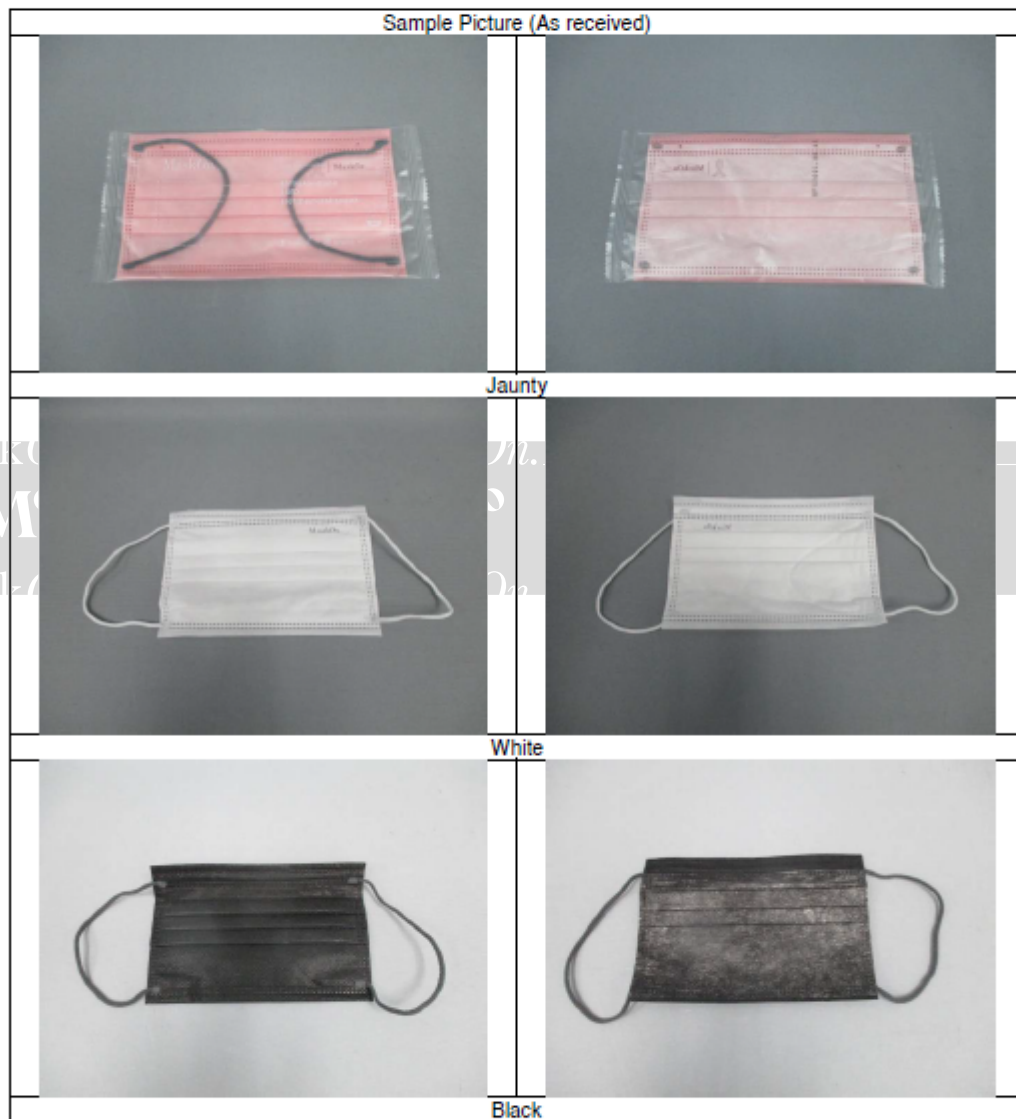
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### Sample Photo:



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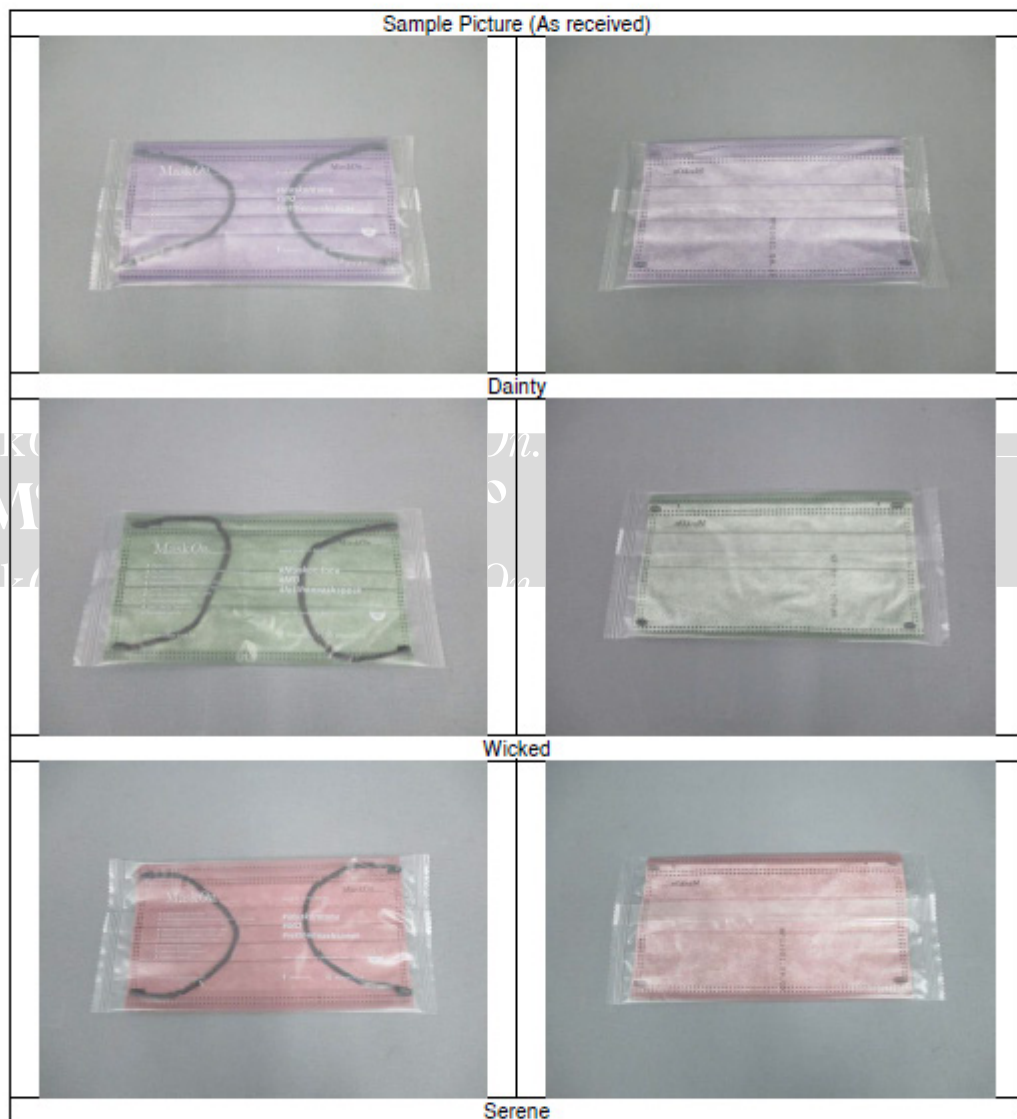
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### Sample Photo:

Sample Picture (As received)



Jazzy



Chipper



Hazy

SGS authenticate the photo on original report only

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

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