



Test Report No.T32120310038SN Date: Oct 06, 2021 Page 1 of 20

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), PURPE 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

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

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

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

Signed for and on behalf of

SGS Hong Kong Ltd.

Signed for and on behalf of SGS Hong Kong Ltd.

Au Kam Chi, Gigi

Tsang Chuk Hai

Technical Manager

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
5 6 6.1	Classification Requirements The properties of the medical face mask material shall conform to the specifications requirements in Table 1, as	See Table 1
	tested in accordance with Section 9. ^Bacterial filtration efficiency (ASTM F2101) ^Differential pressure (EN 14683:2019 Annex C) ^Sub-Micron Particulate Filtration (ASTM F2299) Resistance to penetration by synthetic blood (ASTM F1862)	> 98% < 6.0 mm H ₂ O/cm ² > 98% 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_{SO}) 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%.".

NIaskOn, by IV

"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 ₂ O/cm ²	< 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 [#]	80	120	160
Flame spread	Class 1	Class 1	Class 1

^{# -} 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 cm²
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 103 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 cm² cm²

Flow Rate : 8 I/min

Test Leastion			ΔP (mm H ₂ O/cm ²))	
Test Location	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 cm² Face Velocity : 10.02 cm/s

Particle Size : 0.1 \(\mu \) (+/-7.5% CV) Latex Microspheres

Average Filtration Efficiency : 99.44% Standard Deviation : 0.03

Test Specimen	Pressure Drop	Downstream Particle	Upstream Particle	Filtration Efficiency
1	(inH ₂ O) 0.316	Count 1088	Count 191804	(%) 99.43%
2	0.296	986	172687	99.43%
3	0.230	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 2001 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 mmHa

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)

<u>Fabric Surface</u> : Plain (Face) <u>Test Specimen Direction</u> : Length

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

Remarks:

(1. /// Class 1/2)Normal Flammability 2.8 K (///)

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)

<u>Fabric Surface</u> : 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.M. Class 12 Normal Flammability LASK Un. ____ 97 [V]

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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

 $MaskOn._{--}$

(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)

<u>Fabric Surface</u> : Plain (Face) <u>Test Specimen Direction</u> : Length

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

Remarks:

1. // Class 14 Normal Flammability 2.S.C. ///

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)

<u>Fabric Surface</u> : Plain (Face) Test Specimen Direction : Length

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

Remarks:

(1. /// Class 1/2 Normal Flammability 2.S.K.()///

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)

Fabric cut from submitted sample (White)

Plain (Face) Fabric Surface Test Specimen Direction : Length

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

Remarks:

Class 1 - Normal Flammability

Class 1 fextiles exhibit normal flammability and are acceptable for use in clothing $28 \mathrm{K} - \Omega$.

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 (Black)

<u>Fabric Surface</u> : Plain (Face)
<u>Test Specimen Direction</u> : Length

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

Remarks:

Class 1 - Normal Flammability

Class 1 textiles exhibit normal flammability and are acceptable for use in clothing 25K 0/1.

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 (Purple)

<u>Fabric Surface</u> : Plain (Face) <u>Test Specimen Direction</u> : Length

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

Remarks:

1. /// Class 1/2 Normal Flammability 2 S K ()///

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 (Dark Green)

<u>Fabric Surface</u> : Plain (Face)
<u>Test Specimen Direction</u> : Length

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

Remarks:

Class 1 - Normal Flammability

 ℓ Class 1 textiles exhibit normal flammability and are acceptable for use in clothing. 2SKUL

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 (Berry)

<u>Fabric Surface</u> : Plain (Face) <u>Test Specimen Direction</u> : Length

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

Remarks:

1. /// Class 1/4 Normal Flammability 2.S.K.()///

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 (Orange)

<u>Fabric Surface</u> : 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 4 Normal Flammability 2 S K (////

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:

ONI = Did not ignite

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Unisse otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only:





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

Fabric cut from submitted sample (Yellow) Sample

Fabric Surface Plain (Face) Test Specimen Direction : Lenath

	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. M. Class 1/2 Normal Flammability 2.8 K. M...

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:

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)

<u>Fabric Surface</u> : Plain (Face) <u>Test Specimen Direction</u> : 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. M. Class 1 - Normal Flammability LASK U. . ____

VIASK*On.____by* I**v**

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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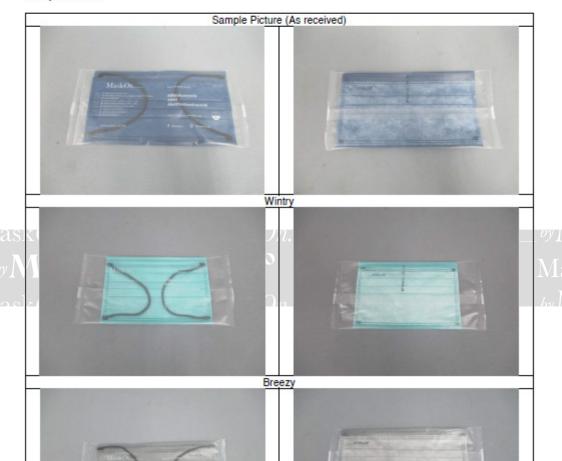
Test Report

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Date: Oct 06, 2021

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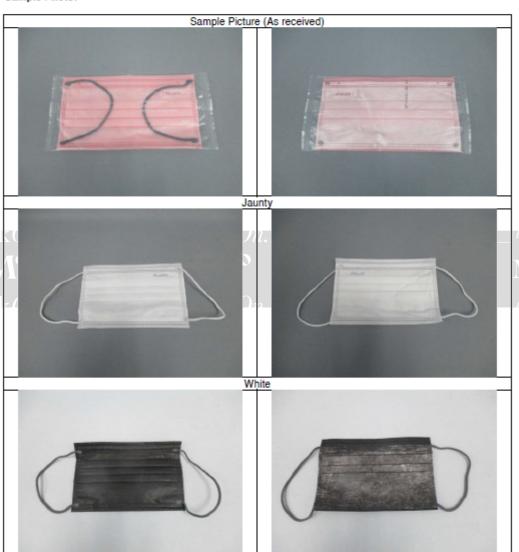
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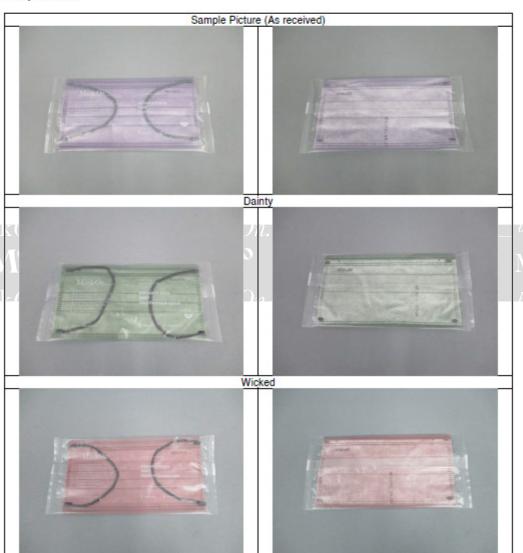
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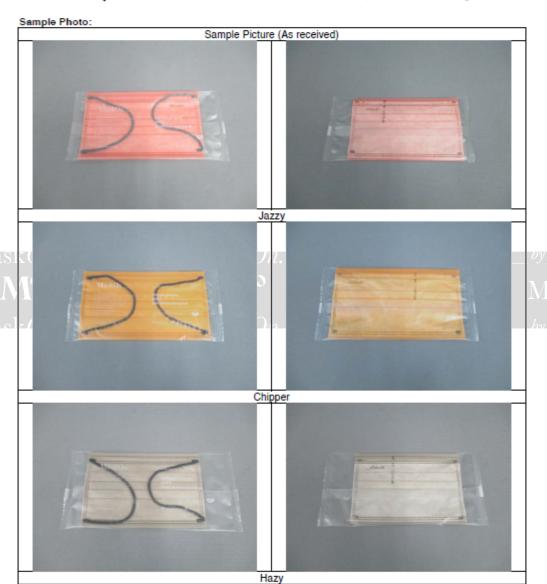
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