



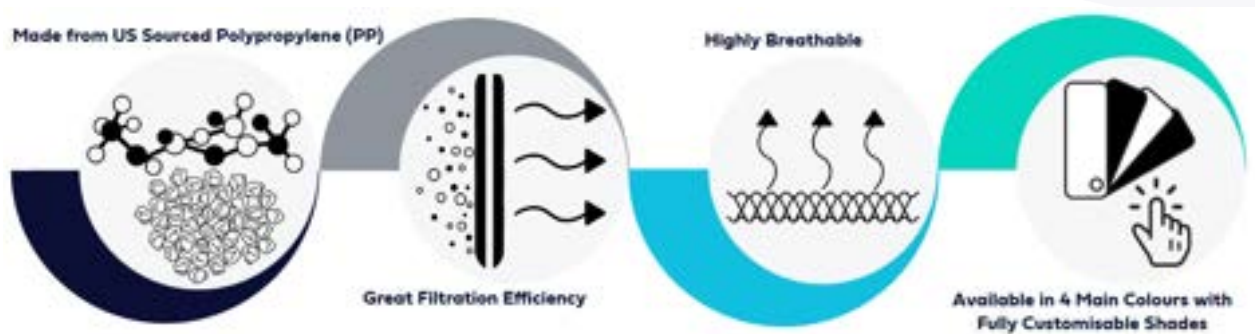
Material · Knowledge · Equipment · Export

## MELTBLOWN NONWOVEN

MKEnX specialises in producing high-quality face mask production material in Taiwan. Our signature product, the meltblown nonwoven fabric, comes in a variety of colours, lengths and weights.

The meltblown nonwoven fabric is the critical element of face masks that filters out dust and particles and shields viruses. It is also that layer of material preventing bacteria or any potential airborne diseases from infiltrating through the face mask layers.

### Features



### Specifications

- BFE (Bacterial Filtration Efficiency)**  
BFE (25g/m<sup>2</sup>) > 99%
- Width (mm)**  
175, 200, 225, 250, 260
- Length (m/roll)**  
1k, 1.2k, 1.5k, 2k, 2.5k
- DP (Differential Pressure)**  
DP (25g/m<sup>2</sup>) < 2.5mm H<sub>2</sub>O/cm<sup>2</sup>
- Weight (g/m<sup>2</sup>)**  
15, 20, 25, 30



## Range of products

Meltblown color range : White / Black / Grey / Blue



Customisable in weight, width and length



## Production

### Meltblown Production Line



### PP resins from the US



## Production

Production of Meltblown nonwoven fabric



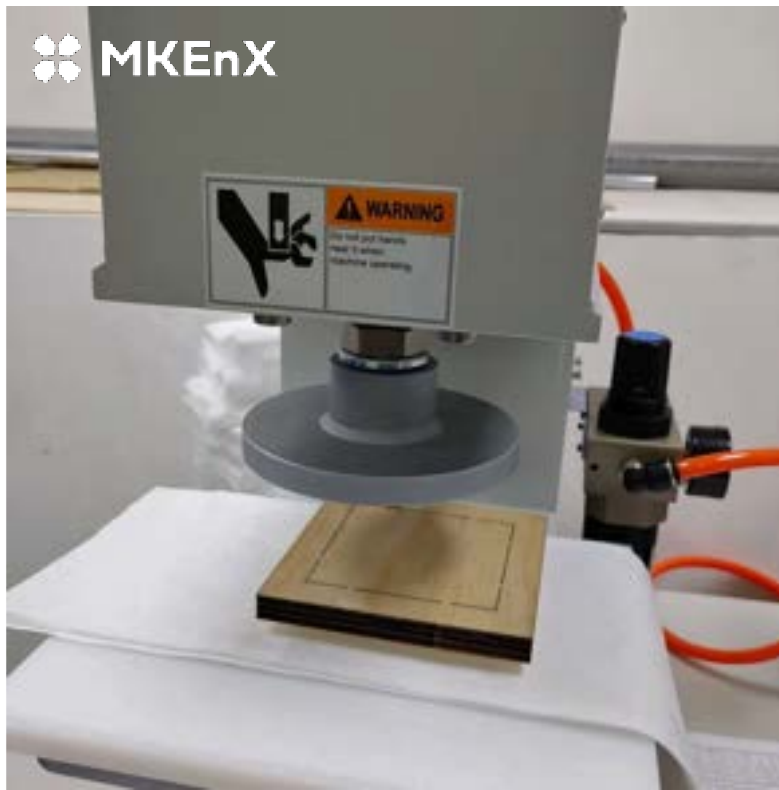
## Testing Process

Laboratory pressure testing

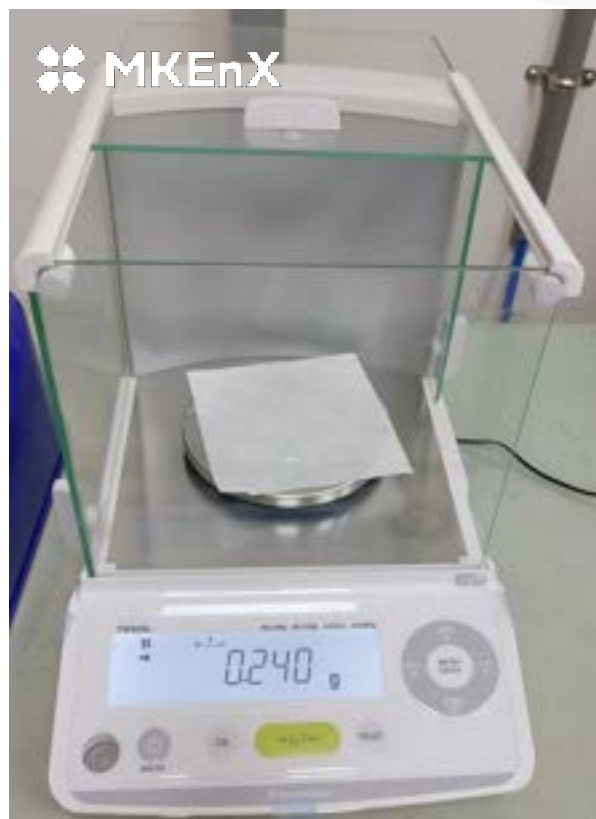


## Testing Process

Sample cutting



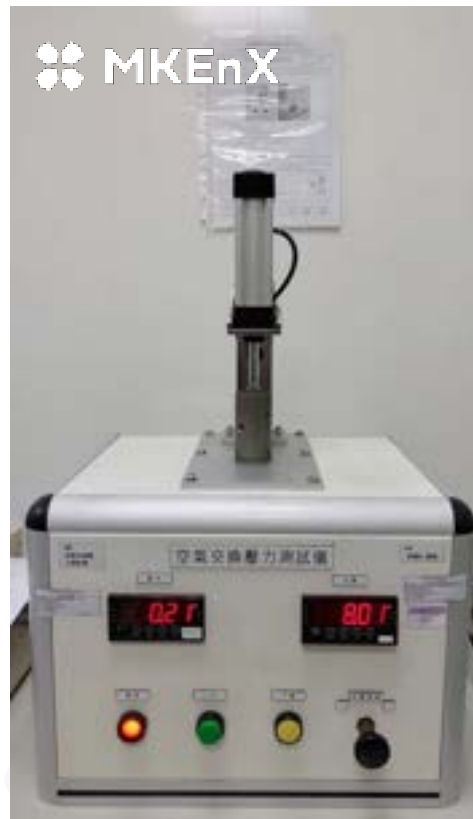
Gram testing per roll of meltblown



## Testing Process

Air Exchange Pressure testing

MKEEnX



Fluorescence Testing



# Certifications: SGS

Test report (1/5)

# SGS

## TEST REPORT

Hardline Laboratory

Report No. : HQ30049/2021

Page : 1 of 5

Date : APR. 13, 2021

**Motex Healthcare Corp.**

No. 38, Xingong 5th Rd., Tianzhong Township, Changhua County 520, Taiwan

The following merchandise was submitted and identified by the applicant as:

Product Description: Meltblown (Non-Sterile)

Manufacturer/Vendor: Motex Healthcare Corp.

Country of Origin: Taiwan

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Requested:

1. ASTM F2101:2019
2. EN 14683:2019 Annex C
3. 16 CFR Part 1610
4. ASTM F2299/F2299M-03 (Reapproved 2017)

Test Method & Result: ---See following sheet(s)---

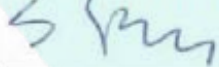
Date of Receipt : MAR. 15, 2021

Testing Period : MAR. 15, 2021 ~ APR. 13, 2021

Note:

1. The ASTM F2101:2019, EN 14683:2019 Annex C and 16 CFR Part 1610 tests were performed by O.S.H. CO., LTD. Respirator Test Center.
2. The ASTM F2299/F2299M-03 (Reapproved 2017) testing was performed by SGS Hong Kong Ltd.

Signed for and on behalf of  
SGS Taiwan Ltd.

  
Sturm Su  
Asst. Manager



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Test report (2/5)



## TEST REPORT

Hardline Laboratory

Report No. : HQ30049/2021

Page : 2 of 5

### Test Method & Result:

#### 1. ASTM F2101:2019:

Test Methods	Test Item	Test Results
1. Testing Sample Number: 5 2. Test surface : Either 3. Test Area: 49 cm <sup>2</sup> 4. Flow rate during testing: 28.3 Liter/min 5. Counts of positive control: 1894 CFU 6. Counts of negative control: 0 CFU 7. Average size: 2.7 μm 8. Sample Model: BFE-1100317001	Bacterial filtration efficiency (BFE) %	01 99.7
		02 >99.9
		03 99.7
		04 99.7
		05 99.7

Sample No.	6 Stage Colonies count of each stage						Total colony count (CFU)
	Stage 1 (7 μm)	Stage 2 (4.7 μm)	Stage 3 (3.3 μm)	Stage 4 (2.1 μm)	Stage 5 (1.1 μm)	Stage 6 (0.65 μm)	
01	0	0	0	1	3	1	5
02	0	0	0	0	1	0	1
03	0	0	0	1	3	1	5
04	0	1	0	0	3	1	5
05	0	0	0	0	4	1	5

#### 2. EN 14683:2019 Annex C:

Test Methods	Test Item	Test Results (mm H <sub>2</sub> O/cm <sup>2</sup> )	Test Results (Pa/cm <sup>2</sup> )
1. Testing Sample Number: 5 2. Test Flow Rate : 8.02 Liter/min 3. Pre-Conditioning: Minimum of 4 hours at (21±5) °C and (85±5) % relative humidity. 4. Sample Model: AEP-1100317001	Differential pressure	01 1.92	18.82
		02 1.88	18.42
		03 1.97	19.31
		04 1.86	18.23
		05 1.93	18.91
		Avg. 1.91	18.74

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# Certifications: SGS

Test report (3/5)



Hardline Laboratory

## TEST REPORT

Report No. : HQ30049/2021

Page : 3 of 5

### 3. 16 CFR Part 1610:

Test Methods	Test Item	Test Results	
1. 16 CFR Part 1610 Step 1 : Testing in the original state. Step 2 : Refurbishing and testing after refurbishing, was not performed. 2. This 16 CFR Part 1610 standard specifies that 10 replicates are to be tested it, during preliminary testing, only 1 test article exhibits flame spread and it is less than 3.5 seconds or the test articles exhibit an average flame spread less than 3.5 seconds. Five replicates are to be tested if no flame spread is observed upon preliminary testing, if only 1 test article exhibits flame spread and it is equal to or greater than 3.5 seconds, or if the average flame spread is equal to or greater than 3.5 seconds. In accordance with the standard, 5 replicates were tested for this study. 3. Testing Sample Number : 5 4. Sample Model: TFT-1100317001	Flammability of Textiles (s)	01	DNI
		02	DNI
		03	DNI
		04	DNI
		05	DNI

#### Note :

1. This test report is the test result issued by the testing institution as requested by the consignor.
2. DNI = Test Article did not ignite
3. Test Criteria for Specimen Classification (See 16 CFR Part 1610.7):

Class	Plain Surface Textile Fabric
1	Burn time $\geq 3.5$ seconds
2	Not applicable to plain surface textile fabrics
3	Burn time $< 3.5$ seconds

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Test report (4/5)

# SGS

## TEST REPORT

Hardline Laboratory

Report No. : HQ30049/2021

Page : 4 of 5

### 4. ASTM F2299/F2299M-03 (Reapproved 2017)

Test Results: Determining the Initial Efficiency of Materials Used in Medical Face Masks to Penetration by Particulates Using Latex Spheres

Test Side : Either side  
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 : 9.96 cm/s  
Particle Size : 0.1 µm (+/-15% CV) Latex Microspheres  
Average Filtration Efficiency : 98.23%  
Standard Deviation : 0.10  
Sample Model : T32120240449SN

Test Specimen	Pressure Drop (inH <sub>2</sub> O)	Test Article Counts	Average Control Counts	Filtration Efficiency (%)
1	0.184	1569	89219	98.24
2	0.179	1825	99050	98.16
3	0.181	1842	100913	98.17
4	0.171	1550	84013	98.16
5	0.174	1614	100830	98.40

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

#### Note :

1. The test report merely reflects the test results of the consigned matters of the client and is not a certification.
2. The content of this report is invalid if it is not presented as the entire report.

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Test report (5/5)

# SGS

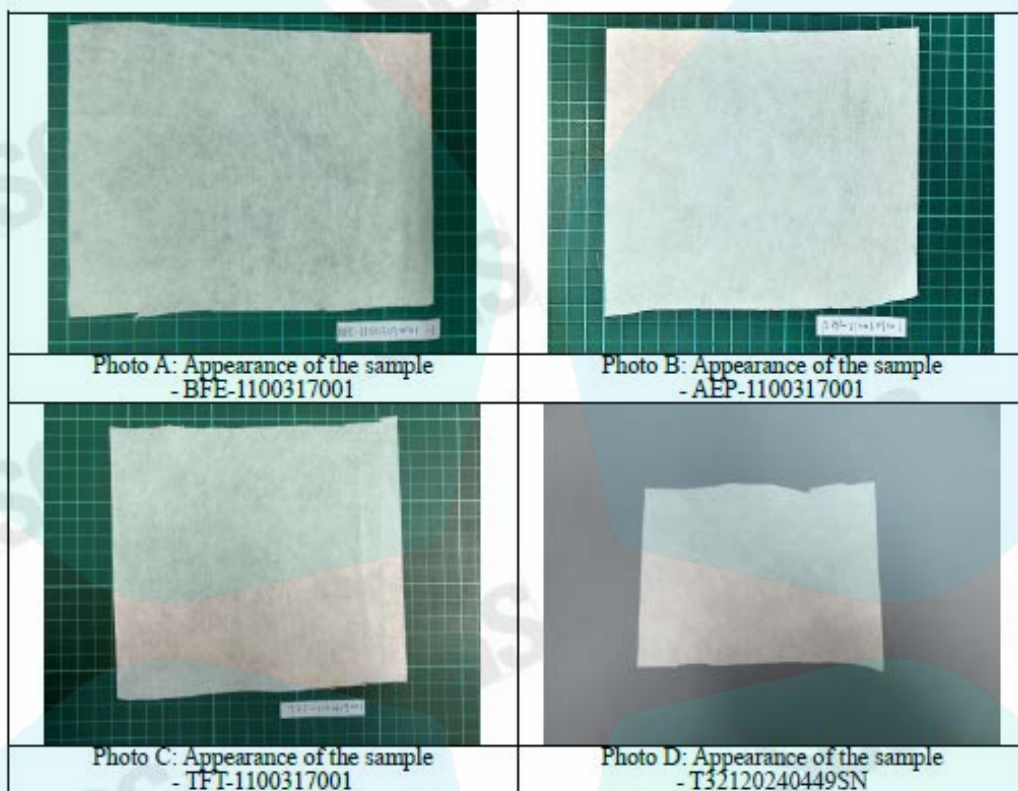
Hardline Laboratory

## TEST REPORT

Report No. : HQ30049/2021

Page : 5 of 5

- Picture(s) -



---End of Report---

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# Certifications: TTRI

White meltblown: Air Exchange Pressure

**TTRI** 財團法人紡織產業綜合研究所  
Taiwan Textile Research Institute



Date: Sep.22,2020 Date of Receipt: Sep.04,2020 TEST REPORT TUCHENG ORIGINAL  
 Report No.: TFF91152 Quantity: 1PC Page Order/Pages: (P1/2) Ref. No.: NIL  
 Report Title: Motex Healthcare Corp.(T5401) Item: Filter Media  
 Address: No. 38, Xingong 5th Rd., Tianzhong Township, Changhua County 520, Taiwan (R.O.C.)

Test Items		Test Results	Test Methods
Air Exchange Pressure (mmH <sub>2</sub> O/cm <sup>2</sup> )	1	1.7	CNS 14774 T5017-2018 9.4
	2	1.8	CNS 14777 T4039-2003
	3	1.7	
	4	1.6	
	5	1.5	

Note: Air Exchange Pressure takes 5 pieces for testing.

Note: Sample description is given by the client: Meltblown (Non-Sterile) 15cm\*15cm



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Taiwan Textile Research Institute

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Fax : +886-2-22675108 , +886-2-22689839

# Certifications: TTRI

White meltblown: Bacterial Filtration Efficiency (BFE)

**TTRI** 財團法人紡織產業綜合研究所  
Taiwan Textile Research Institute



Date: Sep.22,2020 Date of Receipt: Sep.04,2020 TEST REPORT TUCHENG ORIGINAL

Report No.: TFP91152 Quantity: IPC (P2/2) Ref. No.: NIL

Motex Healthcare Corp.(T5401) Page Order/Pages: \_\_\_\_\_ Item: Filter Media

Report Title: \_\_\_\_\_ Address: No. 38, Xingong 5th Rd., Tianshzhong Township, Changhua County 520, Taiwan (R.O.C.)

Test Items		Test Results	Test Methods
Bacterial Filtration Efficiency (BFE)(%)	1	99.8	CNS 14774-T5017-2018 9.2
	2	99.9	CNS 14775 T4037-2003
Staphylococcus aureus ATCC 6538	3	99.7	
	4	99.9	
	5	99.8	

Note: Control average: 2107 CFU.

Note: Mean particle size: 3.0 μm.

Note: Testing area: 39.5 cm<sup>2</sup>.

Note: Flow rate : 28.3 L/min.

Note: Sample description is given by the client: Meltblown (Non-Sterile) 15cm\*15cm

Department of Testing and Certification



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Director,  
Department of Testing and Certification

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# Certifications: TTRI

White meltblown: Particulate Filtration Efficiency (1/2)



## TEST REPORT TUCHENG

ORIGINAL

Date of Issue: Mar. 12, 2021 Date of Receipt and Test Start: Feb. 09, 2021  
 Report No.: TAF0B161 Quantity: 1PC Page Order/Pages: (P1/2) Ref. No.: NIL  
 Report Title: Motex Healthcare Corp.(U3271) Item: Filter Media  
 Address: No. 38, Xingong 5th Rd., Tianzhong Township, Changhua County 520, Taiwan (R.O.C.)

Test Items		Test Results	Test Methods
Particulate Filtration Efficiency(%) (0.1µm PSL)	1	99.15	CNS 14774 T5017-2018
	2	99.03	9.3(a)
	3	99.15	ASTM F2299-2003
	4	99.07	Flow rate:28.1
	5	98.92	(Liter/min)
	Ave.	99.07	
Flammability (as Received)	Length wise	DNI	CNS 14774 T5017-2018 9.5
	Width wise	DNI	CNS 10285 L3196-1995
	Rating	Grade 1	Method C

Note: Flammability takes 20 samples for testing.  
 Note: "DNI": Did Not Ignite.  
 Note: Sample description is given by the client: Meltblown(Non-Sterile)

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# Certifications: TTRI

White meltblown: Particulate Filtration Efficiency (2/2)



## TEST REPORT TUCHENG

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Date of Issue: Mar. 12, 2021 Date of Receipt and Test Start: Feb. 09, 2021  
Report No.: TAF0B161 Quantity: 1PC Page Order/Pages: (P2/2) Ref. No.: NIL  
Report Title: Motex Healthcare Corp.(U3271) Item: Filter Media  
Address: No. 38, Xingong 5th Rd., Tianzhong Township, Changhua County 520, Taiwan (R.O.C.)



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Black meltblown: Air Exchange Pressure



## TEST REPORT TUCHENG

ORIGINAL

Date of Issue: Mar. 05, 2021 Date of Receipt and Test Start: Feb. 23, 2021  
Report No.: TFFOB304 Quantity: IPC Page Order/Pages: (P1/3) Ref. No.: NIL  
Report Title: Motex Healthcare Corp.(U3271) Item: Filter Media  
Address: No. 38, Xingong 5th Rd., Tianzhong Township, Changhua County 520, Taiwan (R.O.C.)

Test Items		Test Results	Test Methods
Air Exchange Pressure (mmH <sub>2</sub> O/cm <sup>2</sup> )	1	1.7	CNS 14774 T5017-2018 9.4 CNS 14777 T4039-2003
	2	1.6	
	3	1.7	
	4	1.8	
	5	1.7	

Note: Air Exchange Pressure takes 5 pieces for testing.

Note: Air Exchange Pressure testing area: 4.9 cm<sup>2</sup>.  
(15cm\*15cm)

Note: Sample description is given by the client: Meltblown nonwoven (15cm\*15cm)

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# Certifications: TTRI

Black meltblown: Bacterial Filtration Efficiency (BFE)



## TEST REPORT TUCHENG

ORIGINAL

Date of Issue: Mar.05,2021 Date of Receipt and Test Start: Feb.23,2021  
Report No.: TFF0B304 Quantity: IPC Page Order/Pages: (P2/3) Ref. No.: NIL  
Report Title: Motex Healthcare Corp.(U3271) Item: Filter Media  
Address: No. 38, Xingong 5th Rd., Tianzhong Township, Changhua County 520, Taiwan (R.O.C.)

Test Items		Test Results	Test Methods
Bacterial Filtration	1	99.2	CNS 14774-T5017-2018 9.2
Efficiency (BFE)(%)	2	99.0	CNS 14775 T4037-2003
Staphylococcus aureus	3	99.3	
ATCC 6538	4	99.5	
	5	99.2	

Note: Control average: 2247 CFU.

Note: Mean particle size: 3.0  $\mu\text{m}$ .

Note: Testing side: outside of specimen.

Note: Testing area: 39.5  $\text{cm}^2$ .

Note: Flow rate : 28.3 L/min.

Note: Sample description is given by the client: Meltblown nonwoven (15cm\*15cm)

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# Certifications: TTRI

Black meltblown: Bacterial Filtration Efficiency (BFE)



## TEST REPORT TUCHENG

ORIGINAL

Date of Issue: Mar.05,2021 Date of Receipt and Test Start: Feb.23,2021  
Report No.: TFF0B304 Quantity: 1PC Page Order/Pages: (P3/3) Ref. No.: NIL  
Report Title: Motex Healthcare Corp.(U3271) Item: Filter Media  
Address: No. 38, Xingong 5th Rd., Tianshong Township, Changhua County 520, Taiwan (R.O.C.)



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