

# FICHA TÉCNICA

## MASCARILLA DE PROTECCIÓN INDIVIDUAL

### FFP2

#### DESCRIPCIÓN Y COMPOSICIÓN

- Referencia **CTPL-0020**
- Fabricada en poliéster
- Forma de cono
- Filtro de partículas micrométricas
- Doble banda elástica de sujeción
- Desechable
- No Estéril
- Libre de látex

#### CARACTERÍSTICAS

- Tipo de **protección+99** (BFE %)
- Máscara **resistente** a la obstrucción en el tiempo (prueba por polvo de Dolomita) que mejora la comodidad de uso.
- **Protección:** Aerosoles sólidos y líquidos (como neblinas de aceite) no tóxicos, de toxicidad media-baja y de alta toxicidad.
- Partículas virales /orgánicas COVID 19
- Fuga hacia el interior total: Satisfactorio
- Contenido de CO<sub>2</sub> en el aire de inhalación: Satisfactorio
- Resistencia a la inhalación: Satisfactorio
- Libre de colofonia

FILTRACIÓN BACTERIANA (BFE) (%)

**+99%**

RESPIRABILIDAD (Pa/m<sup>2</sup>)

**28PA/Cm<sup>2</sup>**

EFICACIA DE FILTRACIÓN DE AEROSOL

**+99%**

EFICACIA DE FILTRACIÓN DE PARTICULAS

**+99%**

AJUSTE FACIAL

**+99%**

**NORMA EU/ESP**

UNE-EN 149:2001+A1:2009



ORGANISMO NOTIFICADO

**Nº 0598**



## Connexions Technology(Dong Guan) LTD.

No.6, Shenbao Road, Qishi Town,  
DongGuan,  
GuangDong,  
China.

It is certified that the manufacturer's technical file and the PPE product detailed on page 2 have been assessed and found to be in accordance with

## Regulation (EU) 2016/425

Module B, EU type-examination

This certificate is valid from 22 July 2020 until 22 July 2025

1. Certified since 22 July 2020

Authorised by

*Tom Tom*

**FINAS**  
Finnish Accreditation Service  
S003 (EN ISO/IEC 17065)

SGS FIMKO OY, Notified Body 0598

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# Connexions Technology(Dong Guan) LTD.

## Regulation (EU) 2016/425

Module B, EU type-examination

Issue 1

PPE Product

CTC (logo) CTPL-0020 folded half mask, consisting of five layer (polypropylene/ polypropylene/ polypropylene & hot air cotton/polyester & polyethylene/ polypropylene) disposable particle filtering half mask, with nose clip, and nylon/spandex ear band.

It is certified that the manufacturer's technical file and the above mentioned PPE have been assessed and found to meet the applicable Essential Health and Safety Requirements in Annex II of Regulation (EU) 2016/425 Personal Protective Equipment

The following have been applied:

EN 149:2001+A1:2009 (Respiratory protective devices - filtering half masks to protect against particles) device classification: FFP2 NR.

This certificate is issued on the strict condition that appropriate checks on manufactured PPE, as detailed in Article 19 (c) of the Regulation are implemented and maintained while the model is in production

Certification is based on technical file reference:

Face mask/ CTPL-0020, version 2 dated: 2020-07-21.

SGS Reference Number UK/CRS 241352.

This certificate remains the property of SGS Finke Oy Ltd to whom it must be returned on request.

The FINAS logo is located in the bottom right corner. It features the word 'FINAS' in a large, bold, sans-serif font. Above the 'I' is a small triangle. Below 'FINAS' is the text 'Finnish Accreditation Service' and 'S003 (EN ISO/IEC 17065)' in a smaller font.

**FINAS**  
Finnish Accreditation Service  
S003 (EN ISO/IEC 17065)



Certificate CN20/42733

The management system of

## Connexions Technology (Dong Guan) LTD.

No.6, Shenbao Road, Qishi Town, Dong Guan, Guang Dong, 523500,  
China

has been assessed and certified as meeting the requirements of

## Regulation (EU) 2016/425

Module D

For the following activities

**Manufacture of the FFP2 Protective Respirators**

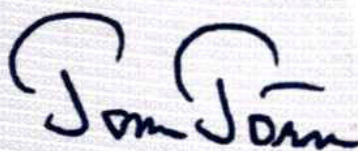
(Note: all products marked CE0598 must have a valid EU Type Examination Certificates issued under Module B or a valid EC type-examination certificate issued under Article 10 of the PPE Directive 89/686/EEC.)

This certificate is valid from 24 December 2020 until 23 December 2023  
and remains valid subject to satisfactory surveillance audits.

Re certification audit due before 8 December 2023

Issue 1. Certified since 24 December 2020

Authorised by



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**FINAS**  
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**Fiscal Year 2020**

## **CERTIFICATION OF REGISTRATION**

This certifies that:

**CONNEXIONS TECHNOLOGY(DONG GUAN)LTD.**

No.6, shenbao road, Qishi Town, DongGuan, GuangDong,China DongGuan,  
GUANGDONG, 523000, CHINA

has completed the FDA Establishment Registration and Device Listing.

**Owner/Operator Number: 10074051**

Listing No.	Product Code	Device Name(s)	Premarket Submission Number/Type	Activities
D403004	MSH	Respirator, surgical	Exempt	Manufacturer

Initial Registration Date: May 18, 2020

Expiration Date: December 31, 2020

Test Report

SL52025246081401TX

Date: June 08, 2020

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CONNEXIONS TECHNOLOGY (DONG GUAN) LTD  
NO. 6, SHENBAO ROAD, QISHI TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A) Face mask

Style No. : CTPL-0020

Composition : (A) Non-woven fabric, melt-blown fabric, hot air cotton

Sample Color : The test sample is white. the actual color is subject to production.

Manufacturer : CONNEXIONS TECHNOLOGY (DONG GUAN) LTD

Country of Destination : Global

Supplier : CONNEXIONS TECHNOLOGY (DONG GUAN) LTD

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Apr 28, 2020

Testing Period : Apr 29, 2020 - Jun 08, 2020

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

#### Conclusion:

Sample No.	Recommendation Level
(A)	FFP2 NR

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center



Sara Guo (Account Executive)



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Test Result

**Respiratory Protective Devices — Filtering Half Masks to Protect against Particles — Requirements, Testing, Marking**

(EN 149:2001+A1:2009)

**Clause 7.4 Packaging**

(EN 149:2001+A1:2009 Clause 8.2)

Test Requirement	Results	Comment
Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.	Comply	Pass

**Clause 7.5 Material**

(EN 149:2001+A1:2009, Clause 8.2 & 8.3.1 & 8.3.2)

Test Requirement	Results	Comment
Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.	Comply	Pass
After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.	Comply	
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Comply	
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Comply	

**Clause 7.6 Cleaning and Disinfecting**

(EN 149:2001+A1:2009, Clause 8.4 & 8.5 & 8.11)

Test Requirement	Results	Comment
If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer. With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.	Not applicable (Not designed to be re-usable)	N.A.

**Clause 7.7 Practical Performance**

(EN 149:2001+A1:2009, Clause 8.4)

Test Requirement	Results	Comment
The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard.	No imperfections	Pass



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## Clause 7.8 Finish of Parts

(EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.	No sharp edges or burrs	Pass

## Clause 7.9.1 Total Inward Leakage

(EN 149:2001+A1:2009, Clause 8.5)

Test Requirement	Results	Comment
The total inward leakage consists of three components: face seal leakage, exhalation value leakage(if exhalation value fitted) and filter penetration. For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 out of the 50 individual exercise results (i.e. 10 subjects x 5 exercises) for total inward leakage shall be not greater than: 25% for FFP1, 11% for FFP2, 5% for FFP3  and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than: 22% for FFP1, 8% for FFP2, 2% for FFP3	Detail refer to Appendix 1	Meet FFP1, Meet FFP2

## Appendix 1: Summarization of Test Data

### Inward Leakage Test Data

Subject	Sample No.	Condition	Walk(%)	Head Side/side(%)	Head up/down(%)	Talk(%)	Walk(%)	Mean(%)
Zhou	1	A.R.	6.11	5.08	7.73	5.47	6.33	6.14
Luo	2	A.R.	7.84	6.74	7.17	5.90	8.26	7.18
Lu	3	A.R.	6.44	4.86	6.48	6.18	7.10	6.21
Wang	4	A.R.	5.86	5.60	4.78	5.41	4.82	5.29
Bao	5	A.R.	8.29	8.66	7.51	6.82	5.91	7.44
Ding	6	T.C.	5.59	4.76	5.54	4.97	5.85	5.34
Li	7	T.C.	8.25	7.75	6.81	7.63	8.40	7.77
Chen	8	T.C.	5.45	5.05	5.98	5.58	5.35	5.48
Song	9	T.C.	5.60	6.81	5.64	6.70	6.99	6.35
Ye	10	T.C.	8.33	7.88	8.11	6.80	8.22	7.87

### Facial Dimension(mm)

Subject	Face length	Face Width	Face Depth	Mouth Width
Chen	125	150	120	58
Lu	115	132	107	48
Zhou	115	135	106	52
Li	125	130	107	46
Luo	125	136	100	43
Zheng	128	140	112	55
Wang	120	147	103	48
Song	120	140	100	50
Bao	130	134	104	50



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Ding	134	150	110	52
Liu	120	135	117	50
Ye	126	137	105	52

## Clause 7.9.2 Penetration of Filter Material

(EN 149:2001+A1:2009, Clause 8.11 & EN 13274-7:2019)

Test Requirement			Results	Comment
The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table.			Detail refer to Appendix 2	Meet FFP1, Meet FFP2
Classifica tion	Maximum penetration of test aerosol			
	Sodium chloride test 95 l/min % max.	Paraffin oil test 95 l/min  % max.		
FFP1	20	20		
FFP2	6	6		
FFP3	1	1		

## Appendix 2: Summarization of Test Data

### Penetration of filter material

Aerosol	Condition	Sample No.	Penetration (%)
Sodium chloride test	As received	1	0.117
		2	0.126
		3	0.119
	Simulated wearing treatment	4	0.145
		5	0.190
		6	0.175
	Mechanical strength +Temperature conditioned	7	0.412
		8	0.317
		9	0.396
Paraffin oil test	As received	10	0.201
		11	0.306
		12	0.287
	Simulated wearing treatment	13	0.279
		14	0.314
		15	0.336
	Mechanical strength +Temperature conditioned	16	3.674
		17	4.124
		18	4.176
Flow conditioning : Single filter: 95.0 L/min			



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## Clause 7.10 Compatibility with Skin

(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

Test Requirement	Results	Comment
Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.	No irritation or any other adverse effect to health	Pass

## Clause 7.11 Flammability

(EN 149:2001+A1:2009, Clause 8.6)

Test Requirement	Results	Comment
The material used shall not present a danger for the wearer and shall not be of highly flammable nature When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5 s after removal from the flame.	Detail refer to Appendix 3	Pass

## Appendix 3: Summarization of Test Data

### Flammability

Condition	Sample No.	Result
As received	1	NIL
	2	NIL
Temperature conditioned	3	NIL
	4	NIL

## Clause 7.12 Carbon Dioxide Content of The Inhalation Air

(EN 149:2001+A1:2009, Clause 8.7)

Test Requirement	Results	Comment
The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume)	Detail refer to Appendix 4	Pass

## Appendix 4: Summarization of Test Data

### Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Result(%)
As received	1	0.4875
	2	0.4862
	3	0.4869
		Mean value:0.49

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## Clause 7.13 Head Harness

(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

Test Requirement	Results	Comment
The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.	Comply	Pass
The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device.	Comply	

## Clause 7.14 Field of Vision

(EN 149:2001+A1:2009, Clause 8.4)

Test Requirement	Results	Comment
The field of vision is acceptable if determined so in practical performance tests.	Comply	Pass

## Clause 7.15 Exhalation Valve(s)

(EN 149:2001+A1:2009, Clause 8.2 & 8.9.1 & 8.3.4 & 8.8)

Test Requirement	Results	Comment
(a) A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	Not applicable due to No exhalation valve	N.A.
(b) If an exhalation valve is provided it shall be protected against or be resistant to dirt and mechanical damage and may be shrouded or may include any other device that may be necessary for the particle filtering half mask to comply with 7.9.	Not applicable due to No exhalation valve	
(c) Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.	Not applicable due to No exhalation valve	
(d) When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10N applied for 10 s.	Not applicable due to No exhalation valve	



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## Clause 7.16 Breathing Resistance

(EN 149:2001+A1:2009, Clause 8.9)

Test Requirement				Results	Comment
The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table.				Detail refer to Appendix 5	Meet FFP1, Meet FFP2, Meet FFP3
Classification	Maximum permitted resistance (mbar)				
	Inhalation		Exhalation		
	30 l/min	95 l/min	160 l/min		
FFP1	0.6	2.1	3.0		
FFP2	0.7	2.4	3.0		
FFP3	1.0	3.0	3.0		

## Appendix 5: Summarization of Test Data

### Breathing resistance (mbar)

As received	Flow rate(l/min)		1					2					3				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
Simulated wearing treatment	Inhalation	95	0.8	0.7	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.8	0.9	0.8	0.8
		160	1.5	1.6	1.5	1.6	1.7	1.6	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.7
	Exhalation	160	1.5	1.6	1.5	1.6	1.7	1.6	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.7
Temperature conditioned	Flow rate(l/min)		4					5					6				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.3
Temperature conditioned	Inhalation	95	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.9	0.8	0.8	0.9	0.7	0.8	0.8	0.9
		160	1.6	1.6	1.4	1.5	1.6	1.6	1.5	1.5	1.4	1.6	1.6	1.6	1.6	1.5	1.5
	Exhalation	160	1.6	1.6	1.4	1.5	1.6	1.6	1.5	1.5	1.4	1.6	1.6	1.6	1.6	1.5	1.5
Temperature conditioned	Flow rate(l/min)		7					8					9				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2
Temperature conditioned	Inhalation	95	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7
		160	1.3	1.3	1.4	1.3	1.4	1.3	1.3	1.3	1.4	1.3	1.3	1.4	1.4	1.3	1.4

A: facing directly ahead; B: facing vertically upwards; C: facing vertically downwards; D: lying on the left side; E: lying on the right side



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## Clause 7.17 Clogging

(EN 149:2001+A1:2009, Clause 8.9 & 8.10)

Test Requirement	Results	Comment																			
<p><u>Clause 7.17.2 Breathing resistance</u>  <u>Valved particle filtering half masks:</u>            After clogging the inhalation resistances shall not exceed:            FFP1: 4 mbar, FFP2: 5 mbar, FFP3: 7 mbar at 95L/min continuous flow            The exhalation resistance shall not exceed 3 mbar at 160 L/min continuous flow.</p> <p><u>Valveless particle filtering half masks:</u>            After clogging the inhalation and exhalation resistances shall not exceed:            FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5 mbar at 95L/min continuous flow</p>	Optional for single shift device only	N.A.																			
<p><u>Clause 7.17.3 Penetration of filter material</u>            All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements.</p> <table border="1"> <thead> <tr> <th rowspan="3">Classification</th><th colspan="2">Maximum penetration of test aerosol</th></tr> <tr> <th>Sodium chloride test 95 l/min</th><th>Paraffin oil test 95 l/min</th></tr> <tr> <th>%</th><th>%</th></tr> </thead> <tbody> <tr> <td></td><td>max.</td><td>max.</td></tr> <tr> <td>FFP1</td><td>20</td><td>20</td></tr> <tr> <td>FFP2</td><td>6</td><td>6</td></tr> <tr> <td>FFP3</td><td>1</td><td>1</td></tr> </tbody> </table>	Classification	Maximum penetration of test aerosol		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min	%	%		max.	max.	FFP1	20	20	FFP2	6	6	FFP3	1	1	Optional for single shift device only	N.A.
Classification		Maximum penetration of test aerosol																			
		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min																		
	%	%																			
	max.	max.																			
FFP1	20	20																			
FFP2	6	6																			
FFP3	1	1																			

## Clause 7.18 Demountable Parts

(EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
All demountable parts (if fitted) shall be readily connected and secured, where possible by hand	No demountable parts	N.A.

Test	Uncertainty
Total inward leakage	3.4%
Penetration of filter material	4.8%
Carbon dioxide content of the inhalation air	3.9%
Breathing resistance (30L/min)	5.9%
Breathing resistance (95L/min)	4.9%
Breathing resistance (160L/min)	4.3%

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Member of the SOC Group (SOC SA)



(The test sample is white , the actual color is subject to production.)  
 \*\*\*End of Report\*\*\*



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## EU-KONFORMITÄTSERKLÄRUNG

Hersteller: Connexions Technology(Dong Guan)LTD.,  
Adresse: No.6, Shenbao Road,Qishi Town, DongGuan, GuangDong,China.

erklärt, dass die nachfolgend beschriebene neue PSA

Produktname	Partikelfilter-Halbmaske
Modell	CTPL-0020
Standard	EN 149:2001+A1:2009
Einstufung	FFP2 NR

- λ in Übereinstimmung mit dem harmonisierten Standard von EN149:2001+A1:2009.
- λ die EU-Typprüfung (Modul B) der Verordnung (EU) 2016/425 durchgeführt und das Zertifikat ausgestellt
- λ führte die Typkonformität auf der Grundlage der internen Produktionskontrolle sowie der überwachten Produktprüfungen in zufälligen Abständen durch (Modul C2) und stellte das Zertifikat aus.

Informationen zur benannten Stelle

Module B	Module C2
SGS Fimko Oy Takomotie 8, FI-00380 Helsinki, Finland Notified Body No. 0598	SGS Fimko Oy Takomotie 8, FI-00380 Helsinki, Finland Notified Body No. 0598

EU-VERTRETER: Power Traders 2020 B.V.

Unterzeichnet im Namen des Unternehmens

Name: Eric Zhang

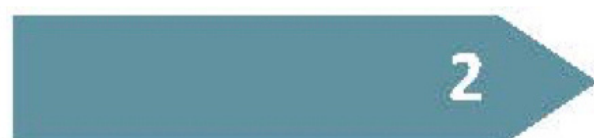
Position: General Manager

Datum: 2020-11-02

Unterschrift:







Hersteller: *Connexions Technology*  
*(Dong Guan) LTD.*

Maskentyp: *CTPL-0020*

Losnummer: *M202011001*



Mehr  
Informationen

# Erklärung

Messungen werden an fabrikfrischen Mustern durchgeführt.

## **Penetration\*:**

Durchlassgrad der Maske; prozentualer Anteil der Partikel, die die Maske passieren und potentiell eingeatmet werden können. Je kleiner der Wert, desto sicherer die Maske, bei optimalem Tragen.

3+:	< 0,5 %	(FFP1, FFP2, FFP3)
3:	0,5 – 1 %	(FFP1, FFP2, FFP3)
2+:	1 – 3,5 %	(FFP1, FFP2)
2:	3,5 – 6 %	(FFP1, FFP2)
1+:	6 – 13 %	(FFP1)
1:	13 – 20 %	(FFP1)
0:	> 20 %	

## **Maximale Penetration\*:**

Durchlassgrad bei 0,145 µm. Je kleiner der Wert, desto sicherer die Maske, bei optimalem Tragen.

A:	< 0,5 %
B:	0,5 – 1 %
C:	1 – 3,5 %
D:	3,5 – 6 %
E:	6 – 13 %
F:	13 – 20 %
G:	> 20 %

\*Basierend auf einer Partikelgrößenverteilung mit Median = 0,29 µm und geom. Standardabweichung = 1,85

(Abweichende Ergebnisse nach EN149 möglich, da der Median zwischen 0,29 und 0,45 µm und die geometrische Standardabweichung zwischen 1,6 und 2,2 liegen darf.)

## **Atemwiderstand:**

Widerstand, der beim Atmen überwunden werden muss. Je geringer, desto angenehmer.

A:	< 150 Pa	(FFP1, FFP2, FFP3)
B:	150 - 210 Pa	(FFP1, FFP2, FFP3)
C:	210 - 240 Pa	(FFP2, FFP3)
D:	240 - 300 Pa	(FFP3)
E:	300 - 350 Pa	
F:	350 - 400 Pa	
G:	> 400 Pa	

# Schutzwirkung

## Halbmaske

Hersteller: *Connexions Technology (Dong Guan) LTD.*

Maskentyp: *CTPL-0020*

Losnummer: *M202011001*

Herstellungsdatum: *01.11.2020*

### Penetration

Niedrig



Hoch

Durchlassgrad mit Ölprüfaerosolen



**$0.43 \pm 0.06$**

### Maximale Penetration

A Niedrig

G Hoch

Durchlassgrad bei kleinsten Aerosolen von  $0,145 \mu\text{m}$

**D**

**$4.09 \pm 0.87$**

### Atemwiderstand

A Niedrig

G Hoch

Einatmung bei 95 l/min

**D**

**$251.94 \pm 5.67$**

Prüfdatum: *28.12.2020*

Gemessen in Anlehnung an EN149 mit PMFT 1000 M von der Palas GmbH.  
Prüflabel ersetzt keine vollständige Prüfung nach EN149 und dient lediglich der schnellen Übersicht.



## Test Report

SL52025246081401TX

Date: June 08, 2020

Page 1 of 10

CONNEXIONS TECHNOLOGY (DONG GUAN) LTD  
NO. 6, SHENBAO ROAD, QISHI TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)Face mask

Style No. : CTPL-0020

Composition : (A)Non-woven fabric, melt-blown fabric, hot air cotton

Sample Color : (A)WHITE

Manufacturer : CONNEXIONS TECHNOLOGY (DONG GUAN) LTD

Country of Destination : Global

Supplier : CONNEXIONS TECHNOLOGY (DONG GUAN) LTD

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Apr 28, 2020

Testing Period : Apr 29, 2020 - Jun 08, 2020

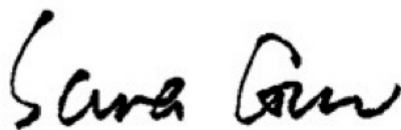
Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

## Conclusion:

Sample No.	Recommendation Level
(A)	FFP2 NR

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center



Sara Guo (Account Executive)

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Test Result

**Respiratory Protective Devices — Filtering Half Masks to Protect against Particles — Requirements,**

**Testing, Marking**

(EN 149:2001+A1:2009)

**Clause 7.4 Packaging**

(EN 149:2001+A1:2009 Clause 8.2)

Test Requirement	Results	Comment
Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.	Comply	Pass

**Clause 7.5 Material**

(EN 149:2001+A1:2009, Clause 8.2 & 8.3.1 & 8.3.2)

Test Requirement	Results	Comment
Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.	Comply	Pass
After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.	Comply	
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Comply	
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Comply	

**Clause 7.6 Cleaning and Disinfecting**

(EN 149:2001+A1:2009, Clause 8.4 & 8.5 & 8.11)

Test Requirement	Results	Comment
If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer. With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.	Not applicable (Not designed to be re-usable)	N.A.

**Clause 7.7 Practical Performance**

(EN 149:2001+A1:2009, Clause 8.4)

Test Requirement	Results	Comment
The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard.	No imperfections	Pass



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## Clause 7.8 Finish of Parts

(EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.	No sharp edges or burrs	Pass

## Clause 7.9.1 Total Inward Leakage

(EN 149:2001+A1:2009, Clause 8.5)

Test Requirement	Results	Comment
<p>The total inward leakage consists of three components: face seal leakage, exhalation value leakage(if exhalation value fitted) and filter penetration. For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 out of the 50 individual exercise results (i.e. 10 subjects x 5 exercises) for total inward leakage shall be not greater than: 25% for FFP1, 11% for FFP2, 5% for FFP3</p> <p>and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than: 22% for FFP1, 8% for FFP2, 2% for FFP3</p>	Detail refer to Appendix 1	Meet FFP1, Meet FFP2

## Appendix 1: Summarization of Test Data

### Inward Leakage Test Data

Subject	Sample No.	Condition	Walk(%)	Head Side/side(%)	Head up/down(%)	Talk(%)	Walk(%)	Mean(%)
Zhou	1	A.R.	6.11	5.08	7.73	5.47	6.33	6.14
Luo	2	A.R.	7.84	6.74	7.17	5.90	8.26	7.18
Lu	3	A.R.	6.44	4.86	6.48	6.18	7.10	6.21
Wang	4	A.R.	5.86	5.60	4.78	5.41	4.82	5.29
Bao	5	A.R.	8.29	8.66	7.51	6.82	5.91	7.44
Ding	6	T.C.	5.59	4.76	5.54	4.97	5.85	5.34
Li	7	T.C.	8.25	7.75	6.81	7.63	8.40	7.77
Chen	8	T.C.	5.45	5.05	5.98	5.58	5.35	5.48
Song	9	T.C.	5.60	6.81	5.64	6.70	6.99	6.35
Ye	10	T.C.	8.33	7.88	8.11	6.80	8.22	7.87

### Facial Dimension(mm)

Subject	Face length	Face Width	Face Depth	Mouth Width
Chen	125	150	120	58
Lu	115	132	107	48
Zhou	115	135	106	52
Li	125	130	107	46
Luo	125	136	100	43
Zheng	128	140	112	55
Wang	120	147	103	48
Song	120	140	100	50
Bao	130	134	104	50

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Ding	134	150	110	52
Liu	120	135	117	50
Ye	126	137	105	52

## Clause 7.9.2 Penetration of Filter Material

(EN 149:2001+A1:2009, Clause 8.11 & EN 13274-7:2019)

Test Requirement			Results	Comment																				
<p>The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table.</p> <table><tr><th rowspan="2">Classifica tion</th><th colspan="2">Maximum penetration of test aerosol</th></tr><tr><th>Sodium chloride test 95 l/min</th><th>Paraffin oil test 95 l/min</th></tr><tr><td></td><td>%</td><td>%</td></tr><tr><td></td><td>max.</td><td>max.</td></tr><tr><td>FFP1</td><td>20</td><td>20</td></tr><tr><td>FFP2</td><td>6</td><td>6</td></tr><tr><td>FFP3</td><td>1</td><td>1</td></tr></table>			Classifica tion	Maximum penetration of test aerosol		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min		%	%		max.	max.	FFP1	20	20	FFP2	6	6	FFP3	1	1	Detail refer to Appendix 2	Meet FFP1, Meet FFP2
				Classifica tion	Maximum penetration of test aerosol																			
			Sodium chloride test 95 l/min		Paraffin oil test 95 l/min																			
				%	%																			
				max.	max.																			
			FFP1	20	20																			
			FFP2	6	6																			
FFP3	1	1																						

## Appendix 2: Summarization of Test Data

### Penetration of filter material

Aerosol	Condition	Sample No.	Penetration (%)
Sodium chloride test	As received	1	0.117
		2	0.126
		3	0.119
	Simulated wearing treatment	4	0.145
		5	0.190
		6	0.175
	Mechanical strength +Temperature conditioned	7	0.412
		8	0.317
		9	0.396
Paraffin oil test	As received	10	0.201
		11	0.306
		12	0.287
	Simulated wearing treatment	13	0.279
		14	0.314
		15	0.336
	Mechanical strength +Temperature conditioned	16	3.674
		17	4.124
		18	4.176
Flow conditioning : Single filter: 95.0 L/min			



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**Clause 7.10 Compatibility with Skin**

(EN 149:2001+A1:2009, Clause 8.4 &amp; 8.5)

Test Requirement	Results	Comment
Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.	No irritation or any other adverse effect to health	Pass

**Clause 7.11 Flammability**

(EN 149:2001+A1:2009, Clause 8.6)

Test Requirement	Results	Comment
The material used shall not present a danger for the wearer and shall not be of highly flammable nature When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5 s after removal from the flame.	Detail refer to Appendix 3	Pass

**Appendix 3: Summarization of Test Data**Flammability

Condition	Sample No.	Result
As received	1	NIL
	2	NIL
Temperature conditioned	3	NIL
	4	NIL

**Clause 7.12 Carbon Dioxide Content of The Inhalation Air**

(EN 149:2001+A1:2009, Clause 8.7)

Test Requirement	Results	Comment
The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume)	Detail refer to Appendix 4	Pass

**Appendix 4: Summarization of Test Data**Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Result(%)
As received	1	0.4875
	2	0.4862
	3	0.4869
		Mean value:0.49



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## Clause 7.13 Head Harness

(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

Test Requirement	Results	Comment
The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.	Comply	Pass
The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device.	Comply	

## Clause 7.14 Field of Vision

(EN 149:2001+A1:2009, Clause 8.4)

Test Requirement	Results	Comment
The field of vision is acceptable if determined so in practical performance tests.	Comply	Pass

## Clause 7.15 Exhalation Valve(s)

(EN 149:2001+A1:2009, Clause 8.2 & 8.9.1 & 8.3.4 & 8.8)

Test Requirement	Results	Comment
(a) A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	Not applicable due to No exhalation valve	N.A.
(b) If an exhalation valve is provided it shall be protected against or be resistant to dirt and mechanical damage and may be shrouded or may include any other device that may be necessary for the particle filtering half mask to comply with 7.9.	Not applicable due to No exhalation valve	
(c) Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.	Not applicable due to No exhalation valve	
(d) When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10N applied for 10 s.	Not applicable due to No exhalation valve	



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## Clause 7.16 Breathing Resistance

(EN 149:2001+A1:2009, Clause 8.9)

Test Requirement				Results	Comment
The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table.				Detail refer to Appendix 5	Meet FFP1, Meet FFP2, Meet FFP3
Classification	Maximum permitted resistance (mbar)				
	Inhalation		Exhalation		
	30 l/min	95 l/min	160 l/min		
FFP1	0.6	2.1	3.0		
FFP2	0.7	2.4	3.0		
FFP3	1.0	3.0	3.0		

## Appendix 5: Summarization of Test Data

### Breathing resistance (mbar)

As received	Flow rate(l/min)		1					2					3					
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
	Inhalation	30	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
		95	0.8	0.7	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.8	0.9	0.8	0.8	
Exhalation	160	1.5	1.6	1.5	1.6	1.7	1.6	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.7	
Simulated wearing treatment	Flow rate(l/min)		4					5					6					
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
	Inhalation	30	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.3	
		95	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.9	0.8	0.8	0.9	0.7	0.8	0.8	0.9	
Exhalation	160	1.6	1.6	1.4	1.5	1.6	1.6	1.5	1.5	1.4	1.6	1.6	1.6	1.6	1.5	1.5		
Temperature conditioned	Flow rate(l/min)		7					8					9					
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
	Inhalation	30	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
		95	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7
Exhalation	160	1.3	1.3	1.4	1.3	1.4	1.3	1.3	1.3	1.4	1.3	1.3	1.4	1.4	1.3	1.4		

A: facing directly ahead; B: facing vertically upwards; C: facing vertically downwards; D: lying on the left side; E: lying on the right side



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### Clause 7.17 Clogging

(EN 149:2001+A1:2009, Clause 8.9 & 8.10)

Test Requirement	Results	Comment																		
<p><u>Clause 7.17.2 Breathing resistance</u>  <u>Valved particle filtering half masks:</u>            After clogging the inhalation resistances shall not exceed:            FFP1: 4 mbar, FFP2: 5 mbar, FFP3: 7 mbar at 95L/min continuous flow            The exhalation resistance shall not exceed 3 mbar at 160 L/min continuous flow.</p> <p><u>Valveless particle filtering half masks:</u>            After clogging the inhalation and exhalation resistances shall not exceed:            FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5 mbar at 95L/min continuous flow</p>	Optional for single shift device only	N.A.																		
<p><u>Clause 7.17.3 Penetration of filter material</u>            All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements.</p> <table border="1"> <thead> <tr> <th rowspan="4">Classification</th><th colspan="2">Maximum penetration of test aerosol</th></tr> <tr> <th>Sodium chloride test 95 l/min</th><th>Paraffin oil test 95 l/min</th></tr> <tr> <th>%</th><th>%</th></tr> <tr> <th>max.</th><th>max.</th></tr> </thead> <tbody> <tr> <td>FFP1</td><td>20</td><td>20</td></tr> <tr> <td>FFP2</td><td>6</td><td>6</td></tr> <tr> <td>FFP3</td><td>1</td><td>1</td></tr> </tbody> </table>	Classification	Maximum penetration of test aerosol		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min	%	%	max.	max.	FFP1	20	20	FFP2	6	6	FFP3	1	1	Optional for single shift device only	N.A.
Classification		Maximum penetration of test aerosol																		
		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min																	
		%	%																	
	max.	max.																		
FFP1	20	20																		
FFP2	6	6																		
FFP3	1	1																		

### Clause 7.18 Demountable Parts

(EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
All demountable parts (if fitted) shall be readily connected and secured, where possible by hand	No demountable parts	N.A.

Test	Uncertainty
Total inward leakage	3.4%
Penetration of filter material	4.8%
Carbon dioxide content of the inhalation air	3.9%
Breathing resistance (30L/min)	5.9%
Breathing resistance (95L/min)	4.9%
Breathing resistance (160L/min)	4.3%



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## Clause 7.17 Clogging

(EN 149:2001+A1:2009, Clause 8.9 & 8.10)

Test Requirement	Results	Comment																			
<p><u>Clause 7.17.2 Breathing resistance</u>  <u>Valved particle filtering half masks:</u>            After clogging the inhalation resistances shall not exceed:            FFP1: 4 mbar, FFP2: 5 mbar, FFP3: 7 mbar at 95L/min continuous flow            The exhalation resistance shall not exceed 3 mbar at 160 L/min continuous flow.</p> <p><u>Valveless particle filtering half masks:</u>            After clogging the inhalation and exhalation resistances shall not exceed:            FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5 mbar at 95L/min continuous flow</p>	Optional for single shift device only	N.A.																			
<p><u>Clause 7.17.3 Penetration of filter material</u>            All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements.</p> <table border="1"> <thead> <tr> <th rowspan="3">Classification</th><th colspan="2">Maximum penetration of test aerosol</th></tr> <tr> <th>Sodium chloride test 95 l/min</th><th>Paraffin oil test 95 l/min</th></tr> <tr> <th>%</th><th>%</th></tr> </thead> <tbody> <tr> <td></td><td>max.</td><td>max.</td></tr> <tr> <td>FFP1</td><td>20</td><td>20</td></tr> <tr> <td>FFP2</td><td>6</td><td>6</td></tr> <tr> <td>FFP3</td><td>1</td><td>1</td></tr> </tbody> </table>	Classification	Maximum penetration of test aerosol		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min	%	%		max.	max.	FFP1	20	20	FFP2	6	6	FFP3	1	1	Optional for single shift device only	N.A.
Classification		Maximum penetration of test aerosol																			
		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min																		
	%	%																			
	max.	max.																			
FFP1	20	20																			
FFP2	6	6																			
FFP3	1	1																			

## Clause 7.18 Demountable Parts

(EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
All demountable parts (if fitted) shall be readily connected and secured, where possible by hand	No demountable parts	N.A.

Test	Uncertainty
Total inward leakage	3.4%
Penetration of filter material	4.8%
Carbon dioxide content of the inhalation air	3.9%
Breathing resistance (30L/min)	5.9%
Breathing resistance (95L/min)	4.9%
Breathing resistance (160L/min)	4.3%



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NO.6, SHENBAO ROAD, QISHI TOWN, DONG GUAN, GUANG DONG, China

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : Non-woven fabric

Color : (A)grey; (B)dark blue; (C)light blue; (D)purple; (E)pink; (F)turquoise

Composition : Non-woven fabric

Style No. : CTPL-0020 / CTPL-0020 WITH VALVE

Manufacture : Connexions Technology(Dong Guan)LTD.,

Country of Destination : Canada, United Kingdom, United States, EUR, Global

Sample Receiving Date : Jan 07, 2021

Testing Period : Jan 07, 2021 - Jan 11, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant

**Overall Conclusion: See Results**

Conclusion

pH Value

Azo Dyes

See Results

See Results

Remark

Remark(s) :

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Jacky Xie (Approved Signatory)



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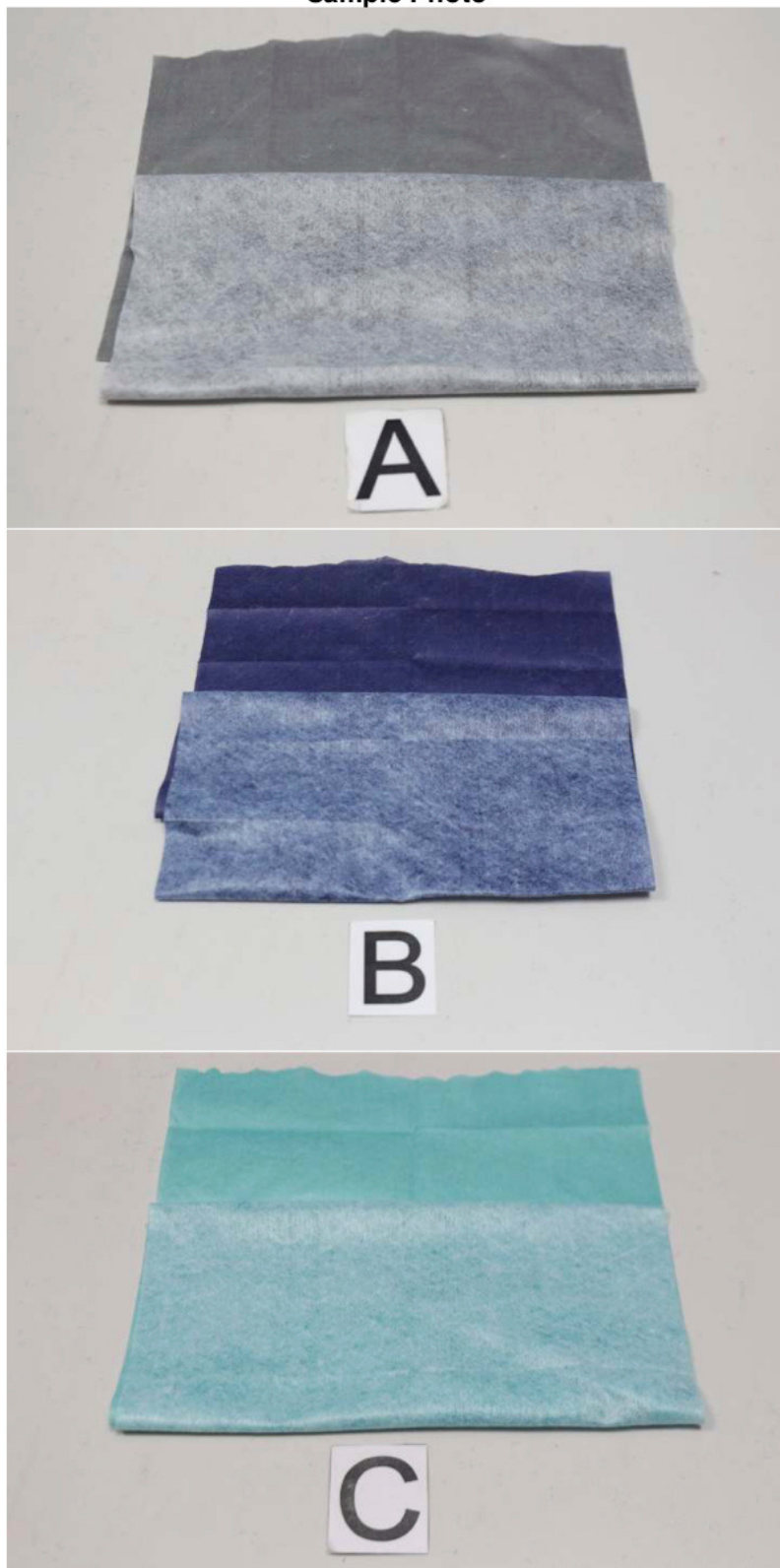
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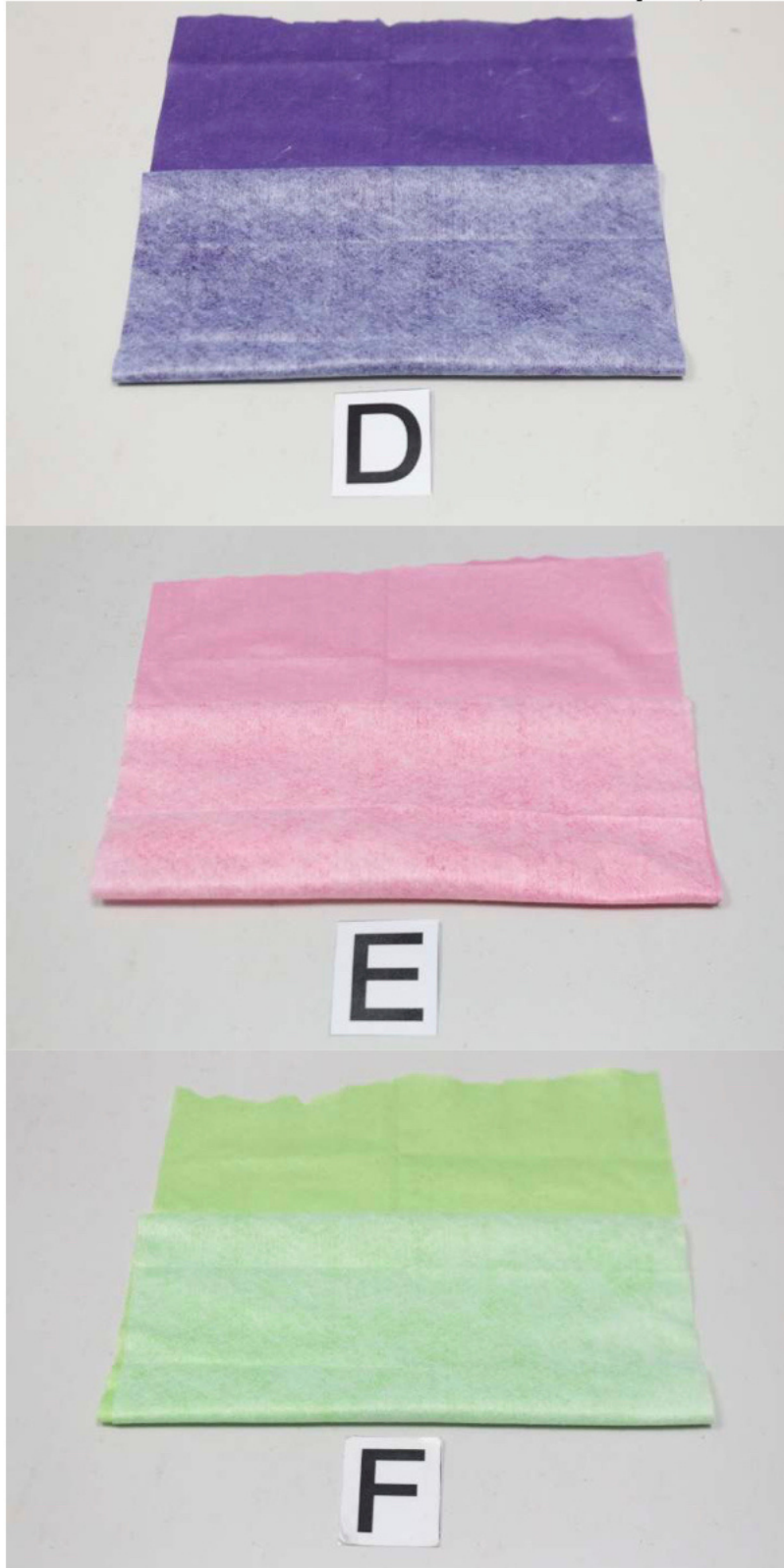
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## Sample Photo





## COMPONENT LIST / List of Materials

Sample No.	Component No.	Description	Material	Color	Remark
A	1	Fabric	Synthetic Fibers	Gray	
B	2	Fabric	Synthetic Fibers	Dark blue	
C	3	Fabric	Synthetic Fibers	Light blue	
D	4	Fabric	Synthetic Fibers	Purple	
E	5	Fabric	Synthetic Fibers	Pink	
F	6	Fabric	Synthetic Fibers	Turquoise	



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## Test Result

**pH Value**

(BS EN ISO 3071:2020; 0.1mol/L KCL extraction)

	Unit	1	2	3	Requirement
pH Value	-	6.7	6.6	6.6	-
	Unit	4	5	6	Requirement
pH Value	-	6.6	6.7	6.8	-

## Note:

1) pH value of extraction medium: 5.0 - 7.5

2) Temperature of the extraction solution: 22°C





**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azo**  
**Dyes(Direct reduction approach)**

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.

Determination of 4-aminoazobenzene (CAS No.:60-09-3) – EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>1+2+3</u>
4-Aminobiphenyl	92-67-1	ND
Benzidine	92-87-5	ND
4-chloro-o-toluidine	95-69-2	ND
2-naphthylamine	91-59-8	ND
o-aminoazotoluene	97-56-3	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	ND
4-chloroaniline	106-47-8	ND
4-methoxy-m-phenylenediamine /	615-05-4	ND
2,4-Diaminoanisole		
4,4'-diaminodiphenylmethane, MDA	101-77-9	ND
3,3'-dichlorobenzidine	91-94-1	ND
3,3'-dimethoxybenzidine	119-90-4	ND
3,3'-dimethylbenzidine	119-93-7	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4'-di	838-88-0	ND
aminodiphenylmethane		
p-cresidine	120-71-8	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	ND
4,4'-oxydianiline	101-80-4	ND
4,4'-thiodianiline	139-65-1	ND
o-toluidine	95-53-4	ND



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## Test Report

SL92109220229701FW

Date: January 11, 2021

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Test Item(s)	CAS NO.	1+2+3
4-methyl-m-phenylenediamine /	95-80-7	ND
2,4-Toluylenediamine, TDA		
2,4,5-trimethylaniline	137-17-7	ND
4-aminoazobenzene	60-09-3	ND
O-Anisidine	90-04-0	ND

## Notes :

RL (Reporting limit): 5 mg/kg (for individual compound)

ND = Not Detected(&lt; RL)

1. Direct reduction (Method A) refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 Clause 10.1 and relevant clauses.
2. 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
3. In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
4. ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.



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**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azo**  
**Dyes(Colorant extraction approach)**

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.

Determination of 4-aminoazobenzene (CAS No.:60-09-3) – EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

Test Item(s)	CAS NO.	1+2+3	4+5+6
4-Aminobiphenyl	92-67-1	ND	ND
Benzidine	92-87-5	ND	ND
4-chloro-o-toluidine	95-69-2	ND	ND
2-naphthylamine	91-59-8	ND	ND
o-aminoazotoluene	97-56-3	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	ND	ND
4-chloroaniline	106-47-8	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	ND	ND
4,4'-diaminodiphenylmethane, MDA	101-77-9	ND	ND
3,3'-dichlorobenzidine	91-94-1	ND	ND
3,3'-dimethoxybenzidine	119-90-4	ND	ND
3,3'-dimethylbenzidine	119-93-7	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4'-di aminodiphenylmethane	838-88-0	ND	ND
p-cresidine	120-71-8	ND	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	ND	ND
4,4'-oxydianiline	101-80-4	ND	ND
4,4'-thiodianiline	139-65-1	ND	ND
o-toluidine	95-53-4	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	ND	ND
2,4,5-trimethylaniline	137-17-7	ND	ND



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Test Item(s)	CAS NO.	1+2+3	4+5+6
4-aminoazobenzene	60-09-3	ND	ND
O-Anisidine	90-04-0	ND	ND

## Notes :

RL (Reporting limit): 5 mg/kg (for individual compound)

ND = Not Detected (< RL)

1. Direct reduction (Method A) refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 Clause 10.1 and relevant clauses.
2. 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
3. In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
4. ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

## Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

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## DECLARACIÓN DE CONFORMIDAD EU

Fabricante: Connexions Technology (Dong Guan) LTD.  
Dirección: Número 6, Camino de Shenbao, Condado de Qishi, DongGuan,  
Cantón, China.

Se declara que el nuevo PPE está descrito a continuación

Nombre de Producto	Media Mascarilla Filtrante de Partículas
Modelo	CTPL-0020
Estándar	EN 149:2001+A1:2009
Clasificación	FFP2 NR

- Está de acuerdo con el estándar armonizado EN149:2001+A1:2009.
- Se realizó el examen de tipo UE (Módulo B) del Reglamento (UE) 2016/425 y se emitió el presente certificado.
- Se realizó la conformidad de tipo basando en el control interno de producción y la verificación supervisada de producto a intervalos aleatorios (Módulo C2) y se emitió el presente certificado.

### Información de Organismo Notificado

Módulo B	Módulo D
SGS Fimko Oy Takomotie 8, FI-00380 Helsinki, Finlandia Número de Organismo Notificado: 0598	SGS Fimko Oy Takomotie 8, FI-00380 Helsinki, Finlandia Número de Organismo Notificado: 0598

REPRESENTANTE DE LA EU: Power Traders 2020 B. V.

[www.powertraders2020.com](http://www.powertraders2020.com)

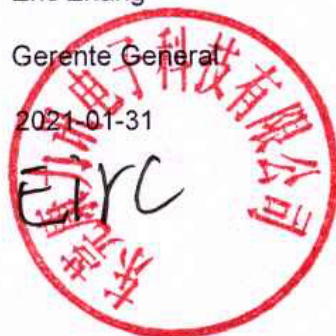
Firmado por nombre de la Fabricante

Nombre: Eric Zhang

Puesto: Gerente General

Fecha: 2021-01-31

Firma:







## EU DECLARATION OF CONFORMITY

Manufacturer: Connexions Technology(Dong Guan)LTD.,  
Address: No.6, Shenbao Road,Qishi Town, DongGuan, Guangdong,China.

declares that the new PPE described hereafter

Product Name	Particle Filtering Half Mask
Model	CTPL-0020
Standard	EN 149:2001+A1:2009
Classification	FFP2 NR

- λ in conformity with the harmonized standard of EN149:2001+A1:2009.
- λ performed the EU type-examination (Module B) of the Regulation (EU) 2016/425 and issued the certificate
- λ performed the conformity to type based on internal production control plus supervised product checks at random intervals (module C2) and issued the certificate .

### Notified Body information

Module B	Module C2
SGS Fimko Oy Takomotie 8, FI-00380 Helsinki, Finland Notified Body No. 0598	SGS Fimko Oy Takomotie 8, FI-00380 Helsinki, Finland Notified Body No. 0598

EU REPRESENTATIVE: Power Traders 2020 B.V.

Signed for on behalf of Company

Name: Eric Zhang  
Position: General Manager

Date: 2020-11-02

Signature:





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We hereby authorize Power Traders 2020 B.V. to be our official Exclusive sales agent in Netherlands, Spain, Portugal, Germany, Italy, and to be responsible for the operation and sales job legally.

产品范围:FFP2口罩, 型号: CTPL-0020

Product Scope: FFP2 Mask, Model:CTPL-0020

授权单位: 东莞康力讯电子科技有限公司

Authorizde by: Connexions Technology (Dong Guan) Ltd.,

法人代表签字:

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Authorized signature:

有效期: 2020年11月1号-2021年3月1号

Valid time:2020/11/01 to 2021/3/1