





中国认可 国际互认 检测 TESTING CNAS L5772

Test Report

Test Requirement:

According to the requirement of the Module C2 (SPC CE-062_EN M4 PPE) of Applus+, the test item(s) of the sample is according to the standard EN149:2001+A1:2009.

Product: Filtering half mask

Report No.: PTC21010802503C-EN01V02

APPLUS +With ID

number:

21/32300354

Client: Dongguan Olayer Technology Co., Ltd.

Client Address: Rm 601, 1st building, No.100, Changping duan, Dongshen Road,

Changping Town, Dongguan, Guangdong Province, China. 523000

Manufacturer: Dongguan Olayer Technology Co., Ltd.

Manufacturer Address: Rm 601, 1st building, No.100, Changping duan, Dongshen Road,

Changping Town, Dongguan, Guangdong Province, China. 523000

(IFICATION G

Approved by:

Contact: Yang Lin

Model(s): OL002

Classification: FFP2 NR

Date of Tests: 2021.02.01~2021.02.05

Signed for and on Behalf of PTC

Prepare by: Checked by:



Summary of assessment

Clause	é é	C STO	810	810	810	S.C.	810	Assessment
7.3 Visual inspection	6° 6	6 %	o CO	and of	50	50	60	PASS
7.5 Material	AG A	0 20	χ0	XO.	20	20	XO.	PASS
7.9.1 Total inward leakage	V V	Q Q	ν.Ο.	×0	. C	V C)	×0.	PASS
7.9.2 Penetration of filter ma	aterial	()	Q.	Q.	Q.	0	Q.	PASS
7.12 Carbon dioxide conten	t of the ir	halation	air	810	\$10	5/10	é,c	PASS
7.16 Breathing resistance	és és	ic vic	&CO	\$KO	20	50	o'C	PASS
7.18 Demountable parts	XG X	0 70	χG	<u> </u>	70	_X 0	χG	PASS

Remark:

PASS: comply with requirement of standard



Page 3 of 14 Report No.:PTC21010802503C-EN01V02 Issue Date: Mar.05, 2021

5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,		
Requirement	Test Result	Conclusion
7.3 Visual inspection		
The visual inspection shall also include the marking and the information supplied by the manufacturer.	Comply	Pass
7.5 Material		
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.	No mechanical failure after	
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	undergoing the conditioning described in	
	8.3.1,	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.	No collapse when	
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering	8.3.1 and 8.3.2.	

half mask shall not collapse.

7.9.1 Total inward leakage

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.

FFP2, Test	
results are	
shown in Annex	Pass
A Table	
7.9.1-A&B	

7.9.2 Penetration of filter material

The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1.

	Sodium chloride test 95 l/min	Paraffin oil test 95 l/min
FFP1	≤ 20%	≤ 20%
FFP2	≤6%	≤ 6%
FFP3	≤ 1%	≤ 1%

FFP2, Test results are shown in Annex A Table 7.9.2.



7.12 Carbon dioxide content of the inhalation air

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume)

Test results are shown in Annex A Table 7.12.

Pass

7.16 Breathing resistance

	Maximum permitted resistance (mbar)								
Classification	O O Inha	Exhalation							
6, 6, 6,	30 l/min	95 l/min	160 l/min						
0 FFP1 0	0.6	2.1 ,0	3.0						
FFP2	0.7	2.4	3.0						
ÇO FFP3	χO 1.00 χ	3.0 🔎	<u> </u>						

FFP2. Test results
are shown in Annex
A Table 7.16.

7.18 Demountable parts

All demountable parts (if fitted) shall be readily connected and secured, where possible by hand

Comply Pass



Annex A: Summarization of Test Data

Table 7.9.1-A: Inward Leakage Test Data

Test specification: EN 149:2001+A1:2009 Clause 8.5

Subject	Sample No.	Condition	Walk (%)	Head Side/side (%)	Head up/down (%)	Talk (%)	Walk (%)	Mean (%)
Lv	1	A.R	4.3	4.7	4.7	5.2	5.4	4.9
éli é	2	A.R	5.2	5.7	5.8	4.9	4.5	5.2
Zhong	3	A.R	6.2	6.6	6.7	7.2	6.5	6.6
Xu	4	A.R	4.7	4.9	4.8	4.9	5.0	4.9
Ma	5	A.R	3.9	4.7	4.7	4.6	4.5	4.5
Chen	6	T.C	4.2	4.7	5.2	5.7	5.2	5.0
Chen	0.7	T.C	4.5	4.5	4.6	4.7	4.9	4.6
Zhuo	8	T.C	4.7	4.5	4.9	5.2	5.1	4.9
Chen	9	T.C	3.7	4.2	4.7	4.9	4.2	4.3
Zhang	10	T.C	4.2	5.1	5.2	5.3	5.5	5.1

Table 7.9.1-B: Facial dimension

Subject	Face Length	Face Width	Face Depth	Mouth Width
Lv	113	139	104	53
	120	135	112	55
Zhong	108	135	106	56
Xu	120	150	120	70
Ma	130	170	130	80
Chen	110	160	90	40
Chen	115	145	110	50
Zhuo	103	146	100	50
Chen	110	145	95	40
Zhang	144	141	101	54



Table 7.9.2: Penetration of filter material

Test specification: EN 149:2001+A1:2009 Clause 8.11

Aerosol	Condition	Sample No.	Penetration (%)	Assessment
TO NO NO		5 11 5 V	0.2	to the the
0 0 0	As received	12	0.2	0 0 0
4 4 4 4 4		13	0.2	6, 6, 6,
XO XO XO	KO KO KO KO	0 140	0.20	XO XO X
Sodium chloride test	Simulated wearing treatment	15	0.2	8. 8. 8.
No No No		16	0.2	yo yo y
.000.		17	0.2	
	Mechanical strength + Temperature conditioned	18	0.2	4 4 4
20 20 20	XO XO XO XO	C 19	0.20	20 20 X
6, 6, 6,	. 6, 6, 6, 6,	20	0.2	Pass
No No No	As received	21	0.10	30 30 S
6 6 6		22	0.1	C. C
		23	0.1	
Paraffin oil test	Simulated wearing treatment	24	0.10	20 20 X
6, 6, 6,		25	0.1	6, 6, 6,
yo yo yo	KO KO KO KO KO	26	0.3	NO NO N
C C C	Mechanical strength + Temperature conditioned	27	0.4	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	remperature conditioned	28	0.3	40 40 41

Table 7.12: Carbon dioxide content of the inhalation air

Test specification: EN 149:2001+A1:2009 Clause 8.7

Condition	Sample No.	Re	esult (%)	Assessment
4, 4, 4,	29	0.04	8 8 8 8	
As received	30	0.04	Mean value:	Pass
	31 (0.04	0.04	0 10 10 10



Report No.:PTC21010802503C-EN01V02 Issue Date: Mar.05, 2021 Page 7 of 14

Table 7.16: Breathing resistance (mbar)

Test specification: EN 149:2001+A1:2009 Clause 8.9

6 6	Flow Ra	ite 🥎			32			Q.		33			()		34		
X0 X0	Inhalation	30 I/min	ک د	Ç ,	0.40	ÇG .	XO	Ye.	40	0.40	~	, ,<	ر د	9 /	0.42	χO	KG.
As received	innalation	95 I/min	· ×	o X	1.35		<	Υ	Y.C.	1.32	×	×	, ×	G X	1.36		ς.
4 4 A	Exhalation	160	Α	В	С	D	E	Α	В	С	D	E	Α	В	С	D	E
X0 X0	Landidion	l/min	1.71	1.71	1.70	1.70	1.66	1.73	1.65	1.69	1.65	1.67	1.73	1.69	1.70	1.68	1.74
0.00	Flow Ra	ite			35			.0		36			3		37		
Simulated	wearing Inhalation 95		0.41			0.40				0.39							
wearing treatment			1.37			1.33			, S.	1.34							
_X O _X C	F. (5)	Exhalation 160 l/min	. А	οВ	СС	D	χĒ	Α	В	С	D	E_(Α	υВ	္ငင	D	Æ
8, 8,	Exnalation		1.86	1.88	1.85	1.85	1.84	1.81	1.82	1.79	1.79	1.79	1.82	1.90	1.84	1.80	1.86
So So	Flow Ra	ite	S &	Ó	38	KO,	2/0	évo	\$10	39	Silver	, S.	× 6	Ó	40	KO (200
Temperature	Indiana A	30 I/min	5 %	0 ,	0.27	ζŌ	20	χG	20	0.27	χ.	1 1	5 1	0	0.29	χO	20
conditioned	Inhalation	95 I/min		e .	1.07		ζ	Q	8	1.02	4	. 7		<. Y	1.07		<
Sin Sin	Exhalation	160	Α	В	С	D	ξĒ	Α	В	С	D	E	Α	В	С	D	ξĒ
X0 X0	Exhalation	l/min	1.57	1.54	1.55	1.58	1.58	1.57	1.55	1.53	1.56	1.56	1.62	1.57	1.57	1.60	1.57
Assessment	× ×	_ <	_ <	_ <	_			Pa	ss	×	~	×	_ <	_ <	_ <		

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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Test	Uncertainty
Total inward leakage	3.8%
Penetration of filter material(NaCl)	3.5%
Penetration of filter material(Paraffin oil)	4.2%
Carbon dioxide content of the inhalation air	4.5%
Breathing resistance(30L/min)	5.2%
Breathing resistance(95L/min)	5.4%
Breathing resistance(160)L/min)	6.0%

Remark: This report supersedes all previous documents bearing the test report number PTC21010802503C-EN01V01. Report number PTC21010802503C-EN01V01 was invalid.

Amendments to report

& CO	Version	Date of issue	Changes
é _{ZO}	PTC21010802503C-EN01V01	2021.02.19	Photo(s) of Packaging
á,C	PTC21010802503C-EN01V02	2021.03.05	Photo(s) of Packaging



Photo(s) of Sample:



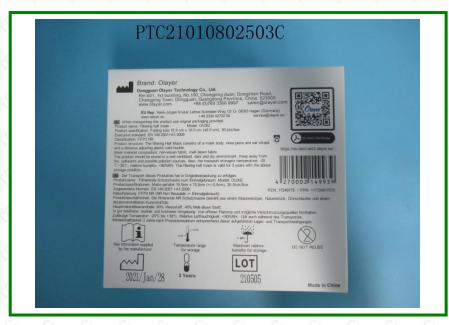












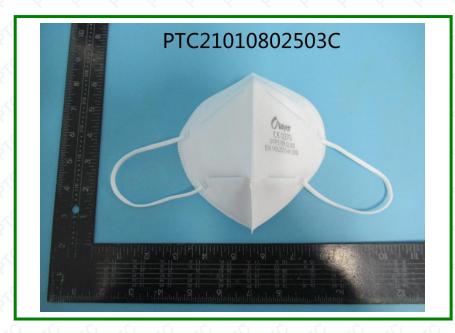


















End of Report