



中国认可
国际互认
检测
TESTING
CNAS L1842



佛山中纺联检验技术服务有限公司
CNTAC Testing Service Co.,Ltd.(Foshan)

Testing Report	Security website: www.fcl-sz.org.cn Security code: 6484221327
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Applicant Information

Applicant Name : BNX CONVERTING, LLC
Applicant Address : 16727 Park Row, Houston, TX 77084, USA
Manufacturer : BNX CONVERTING, LIC

Sample Information

Sample Description : E95 Vertical Folding Earloop Mask
Style No. : E95
Sample Quantity : 65 pieces
Color and Description : Available in White, Black, Pink, and Green
Size specification : 106mmx156mm
Material Components : 5 layers
1. 60gsm spunbond pp nonwoven
2. 25gsm meltblown nonwoven
3. 25gsm hot air cotton
4. 25gsm hot air cotton
5. 50gsm spunbond pp nonwoven

- Sample Receiving/Testing date : 2021-03-03
- Report Date : 2021-03-16
- The original sample is stucked on the last paper.

Test Performed

Judgement according to:
GB 2626-2019 Respiratory protection— Non-powered air-purifying particle respirator
- Selected test(s) as requested by applicants. For details, refer to attached page(s).

Pronounce

The results shown in this report refer only to sample(s) tested unless otherwise stated.
All the items are performed in the standard conditions, except the noted cases.
Except for the requirement of the client, the test results and the conformity judgement of this report do not take the uncertainty of the test results into account.

Signed for and on behalf of
CNTAC Testing Service Co.,Ltd.(Foshan)

Approved by

张志强





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CONCLUSION

Test Item	Judgement
Basic Requirement	Pass
Appearance Inspection	Pass
Filtration Efficiency	Pass
Inward Leakage	Pass
Inhalation Resistance	Pass
Exhalation Resistance	Pass
Dead Space	Pass
Visual field	Pass
Head harness	Pass
Flammability	Pass
Functional Performance	Pass





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--- Test Result ---

Requirements	Test Result	Judgement
1.Basic Requirement <u>GB 2626-2019 Section 5.1</u>		
The materials shall meet the following requirements:		Pass
Materials in direct contact with the face shall be harmless to the skin.	Accordance	
The filter material shall be harmless to human body.	Accordance	
The materials used shall have sufficient strength and shall not be damaged and deformed in normal use.	Accordance	
Wear without obvious tenderness or tingling.	Accordance	
The structural design shall meet the following requirements:		
It shall not be easy to cause structural damage, and the design, composition and installation of components shall not pose any danger to users.	Accordance	
The design of head harness shall be elastic material or adjustable, easy to wear and remove, and it shall be able to firmly fix the facepiece on the face, without obvious compression or tenderness.	Accordance	
It shall not affect visual field obviously.	Accordance	
The structure of the disposable facepiece shall be able to ensure the fit with the face, and should not appear deformation in normal use.	Accordance	





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	Test Result	Requirements	Judgement
2. Appearance Inspection	<u>GB 2626-2019 Section 6.1 and 6.2</u>		
Result	Accordance	The surface should not be damaged, deformation and other obvious defects.	Pass
	Accordance	Component materials and structures shall be able to withstand normal operating conditions and possible temperature, humidity and mechanical shocks.	
	Accordance	After temperature and humidity pretreatment, components should not fall off, damage and deformation.	
3. Filtration Efficiency	<u>GB 2626-2019 Section 6.3</u>		
Air flow:85L/min,Aerosol: NaCl			
Unit: <%>			
Before pretreatment		(KN95) ≥ 95.0	Pass
sample 1#	96.5		
sample 2#	96.1		
sample 3#	97.5		
sample 4#	95.8		
sample 5#	97.1		
sample 6#	98.2		
sample 7#	98.2		
sample 8#	95.9		
sample 9#	98.1		
sample 10#	96.6		
sample 11#	97.9		
sample 12#	96.8		
sample 13#	98.2		
sample 14#	98.0		
sample 15#	97.7		
After pretreatment			
sample 1#	97.4		
sample 2#	97.7		
sample 3#	96.8		
sample 4#	96.9		
sample 5#	96.9		
Minimum	95.8		





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Test Result	Requirements	Judgement
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4. Inward Leakage GB 2626-2019 Section 6.4

50 out of the 50 individual exercise results for total inward leakage are not greater than 11%.

KN95

At least 46 out of the 50 individual exercise results (i.e. 10subjects x 5 exercise) for total inward leakage shall be not greater than 11%.

Pass

9 out of 10 individual wearer arithmetic means for the total inward leakage are not greater than 8%.

At least 8 out of 10 individual wearer arithmetic means for the total inward leakage shall be not greater than 8%.

Remark:Detailed test data on appendix page.

5. Inhalation Resistance GB 2626-2019 Section 6.5

Air flow:85L/min

Unit: <Pa>

Before pretreatment

≤ 210

Pass

sample 1# 120.3

sample 2# 121.0

After pretreatment

sample 1# 111.7

sample 2# 118.4

Maximum 121.0

6. Exhalation Resistance GB 2626-2019 Section 6.6

Air flow:85L/min

Unit: <Pa>

Before pretreatment

≤ 210

Pass

sample 1# 105.5

sample 2# 103.3

After pretreatment

sample 1# 104.5

sample 2# 106.8

Maximum 106.8





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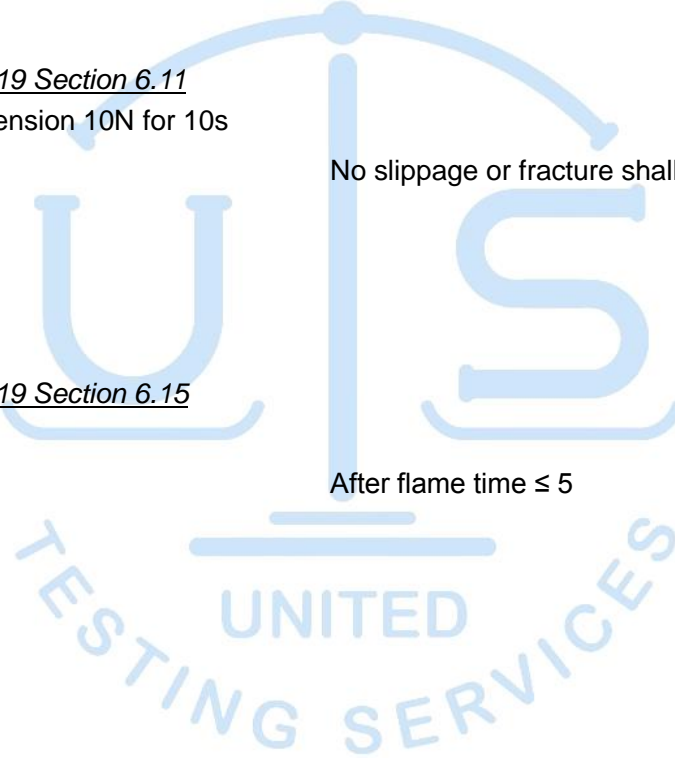


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Test Result	Requirements	Judgement
7. Dead Space <u>GB 2626-2019 Section 6.9</u>		
Unit: <%>		
Volume fraction of carbon dioxide 0.2	The volume fraction of carbon dioxide ≤ 1	Pass
8. Visual field <u>GB 2890-2009 section 6.8</u>		
Below visual field 74.0°	Below visual field(Half-mask) $\geq 35^\circ$	Pass
Binocular visual field 98.7%	Binocular visual field(Half mask) $\geq 65\%$	
9. Head harness <u>GB 2626-2019 Section 6.11</u>		
For disposable facepiece, tension 10N for 10s		
Before pretreatment	No slippage or fracture shall occur	Pass
No slippage and fracture		
After pretreatment		
No slippage and fracture		
10. Flammability <u>GB 2626-2019 Section 6.15</u>		
Unit: <s>		
After flame time	After flame time ≤ 5	Pass
Before pretreatment		
sample 1# 0		
sample 2# 0		
After pretreatment		
sample 1# 0		
sample 2# 0		





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11. Functional Performance GB 2626-2019 Section 6.16

Respirator Information		
Model and specification	Model: E95 EARLOOP VERTICAL FOLD Specification: 106mmX156mm	
Brand	BNX	
Manufacturer Information	Manufacturer's name: BNX Converting, LLC. Manufacturer's address: 16727 Park Row Houston,TX 77084 USA	
Evaluation Report Before testing functional performance, the respirator has completed all laboratory performance tests and is confirmed to be harmless to human subjects.		
Performance category		Evaluation Content
Categories (A) directly related to security	Respiration	Good patency, comfortable air supply, large ventilation
	Vision	No obvious effect on visual field
	Security	The head harness is strong
	Communication Capability	Clear pronunciation, clear hearing, the instructions can be clearly heard, and according to the instructions quickly make the correct response
	Control Device	High intuitive adjustment, easy to understand, easy to operate, low possibility of misoperation or accidental operation
	Activity	High freedom degree of head movement
Categories (B) not directly related to security	Convenience of Use	Convenient to wear, convenient to take off
	Comfort Degree	Facial comfort, moderate thermal comfort, feel comfortable after use
	Maintenance and storage	Easy to maintain and store
	instruction for use	Usage method is easy to understand, maintenance and storage is easy to understand
	Total evaluation	Acceptable level is moderate
Assessment		Pass





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Appendix Page:

Inward Leakage (Disposable mask)		Individual exercise 1 TIL (%)	Individual exercise 2 TIL (%)	Individual exercise 3 TIL (%)	Individual exercise 4 TIL (%)	Individual exercise 5 TIL (%)	Mean individual wearer TIL (%)
The sample before pretreatment	Individual wearer 1	2.3	2.3	2.8	3.0	2.6	2.6
	Individual wearer 2	3.3	3.3	3.9	4.4	3.5	3.7
	Individual wearer 3	5.1	5.1	6.2	6.8	5.4	5.7
	Individual wearer 4	8.5	9.1	9.4	9.6	9.5	9.2
	Individual wearer 5	7.3	7.4	8.2	8.5	7.7	7.8
The sample after pretreatment	Individual wearer 6	6.2	6.7	6.8	7.7	7.2	6.9
	Individual wearer 7	5.0	5.4	5.8	6.6	6.3	5.8
	Individual wearer 8	4.8	5.7	5.9	6.2	6.0	5.7
	Individual wearer 9	3.3	4.0	4.2	4.8	4.6	4.2
	Individual wearer 10	2.8	3.7	3.0	3.3	2.2	3.0





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Original Sample



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