



Fiscal Year 2020

CERTIFICATION OF REGISTRATION

This certifies that:

Jinhua Xinfeng Packaging Material Co. Ltd
2/E, building 12, 297 Donsheng Road, Jindong District, Jinhua City,
Zhejiang Province, P.R. China

has completed the FDA Establishment Registration and Device Listing with the US Food & Drug Administration, through

Shenzhen CCT Testing Technology Co., Ltd.

Owner/Operator Number: 10070913
Registration Number: 3012307300




Device Listing#:

Listing No	Code	Device Name	Activities
878.4040	QKR	Medical Face Mask	Manufacturer

CCT will confirm that such registration remains effective upon request and presentation of this certificate until the end of the calendar year stated above, unless said registration is terminated after issuance of this certificate. CCT makes no other representations or warranties, nor does this certificate make any representations or warranties to any person or entity other than the named certificate holder, for whose sole benefit it is issued. This certificate does not denote endorsement or approval of the certificate-holder's device or establishment by the U.S. Food and Drug Administration. CCT assumes no liability to any person or entity in connection with the foregoing.

Pursuant to 21 CFR 807.39, "Registration of a device establishment or assignment of a registration number does not in any way denote approval of the establishment or its products. Any representation that creates an impression of official approval because of registration or possession of a registration number is misleading and constitutes misbranding." The U.S. Food and Drug Administration does not issue a certificate of registration, nor does the U.S. Food and Drug Administration recognize a certificate of registration, CCT is not affiliated with the U.S. Food and Drug Administration.

Shenzhen CCT Testing Technology Co., Ltd
Web: www.cct-prc.com www.fda-test.com
Tel: 86 755 33157675 fda@fda-test.com


Chief engineer
Issued: Feb 12, 2020
Expiration Date: Feb 11, 2021



Web: <http://www.fda.gov> Tel: 1-888-INFO-FDA (1-888-463-6332) e-mail: webmail@oc.fda.gov



CE Technical Documentation Review Report

Applicant: Jinhua Xinfeng Packaging Material Co., Ltd
2/F, Building 12, 297 Donsheng Road, Jindong District, Jinhua City, Zhejiang Province, P.R.C

Report Number: 60355567-001

Examination intent: Examination the completeness of the Technical Documentation according to the requirements of REGULATION (EU) 2017/745, Annex II

Product(s): Medical Face Masks

Type(s)/Model(s): Type I

Classification: Class I
(according to manufacturer's declaration)

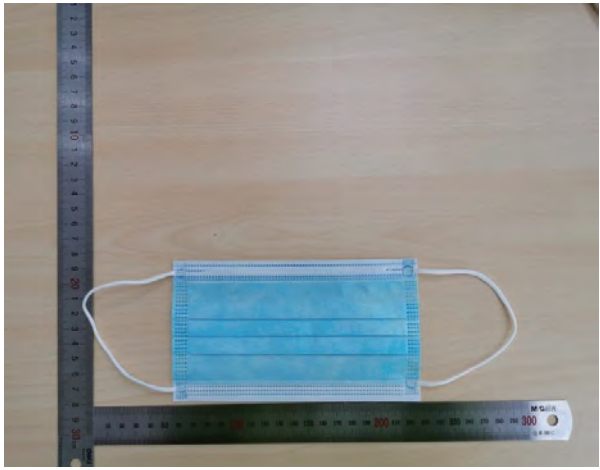
Examination period: Mar.27.2020

Date of expiry: Mar.26.2025

Review result: During the examination of the provided Technical Documentation (No.: YKY-CE-01, Version A/0, Dated 2020-Mar-16), no Non-compliance according to the requirements of REGULATION (EU) 2017/745, Annex II was detected.



Yuhong CHEN
Vice General Manager, Medical Greater China
TÜV Rheinland (China) Ltd.

Prüfbericht-Nr.: <i>Test Report No.:</i>	60361105 001	Auftrags-Nr.: <i>Order No.:</i>	190104843	Seite 1 von 12 Page 1 of 12	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2019-09-27		
Auftraggeber: <i>Client:</i>	Jinghua xinfeng Packaging Material Co. Ltd 2/F building 12, 297 donsheng road, Jindong District, Jinhua City, Zhejiang Province ,P.R. C				
Prüfgegenstand: <i>Test item:</i>	Medical Face Masks				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	Flat Pleated Ear Loops				
Auftrags-Inhalt: <i>Order content:</i>	Type test				
Prüfgrundlage: <i>Test specification:</i>	EN 14683:2019+AC:2019				
Wareneingangsdatum: <i>Date of receipt:</i>	2020-02-14				
Prüfmuster-Nr.: <i>Test sample No.:</i>	Engineering sample				
Prüfzeitraum: <i>Testing period:</i>	2020-02-14 to 2020-03-24				
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (China) Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (China) Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:		kontrolliert von / reviewed by:			
2020-04-13 Su Meng / Project Engineer		2020-04-13 Han Dong / Reviewer			
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other:					
- Attachment 1. Photographic Documentation (2 pages)					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.					
<i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

EN 14683:2019+AC: 2019 Medical face masks — Requirements and test methods	
Report Reference No.	60361105 001
Date of issue	See cover page
Total number of pages	See cover page
Testing Laboratory	TÜV Rheinland (China) Ltd.
Address	Unit 707, AVIC Building, No. 10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing 100022, P,R, China
Applicant's name	Jinghua xinfeng Packaging Material Co. Ltdd
Address	2/F building 12, 297 donsheng road, Jindong District, Jinhua City, Zhejiang Province ,P.R. C
Test specification:	
Standard	EN 14683:2019+AC:2019
Test procedure	Type test
Non-standard test method	N/A
Test Report Form No.	EN 14683:2019+AC:2019_A
Test Report Form Originator	TÜV Rh (SZ)
Master TRF	2020-03
Test item description	Medical Face Masks
Trade Mark	N/A Jinghua xinfeng Packaging Material Co. Ltd
Manufacturer	2/F building 12, 297 donsheng road, Jindong District, Jinhua City, Zhejiang Province ,P.R. C
Model/Type reference	Flat Pleated Ear Loops
Classification	Type I

List of Attachments (including a total number of pages in each attachment):

- Attachment 1. Photos documentation (2 pages).

Summary of testing:

Tests performed (name of test and test clause):

Clause 5.2.2: Bacterial filtration efficiency (BFE);

Clause 5.2.3: Breathability;

Clause 5.2.5: Microbial cleanliness (Bioburden).

Note: All tests listed as above have been conducted in the competent external lab under the supervision of a TUV engineer

Copy of marking plate

The artwork below may be only a draft.

Label for **Flat Pleated Ear Loops**

Testing Date of receipt of test item(s): 2020-02-14 Dates of tests performed: 2020-02-14 to 2020-03-24
Possible test case verdicts: - test case does not apply to the test object : N/A - test object does meet the requirement : P (Pass) - test object was not evaluated for the requirement : N/E (collateral standards only) - test object does not meet the requirement : F (Fail)
General remarks: "(See Attachment #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. The tests results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory. List of test equipment must be kept on file and available for review. Additional test data and/or information provided in the attachments to this report. Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.
Name and address of factory (ies) : Jinghua xinfeng Packaging Material Co. Ltd, 2/F building 12, 297 donsheng road, Jindong District, Jinhua City, Zhejiang Province ,P.R. C
General product information: Intended use: The Medical Face Masks are intended to be worn by patients and other persons to reduce the risk of spread of infections particularly in epidemic or pandemic situations.

EN 14683:2019+AC:2019			
Clause	Requirement + Test	Result - Remark	Verdict
4	Classification		P
	Medical face masks specified in this European Standard are classified into two types (Type I and Type II) according to bacterial filtration efficiency whereby Type II is further divided according to whether or not the mask is splash resistant. The 'R' signifies splash resistance.	Type I	P
5	Requirements		P
5.1	General		P
5.1.1	Materials and construction		P
	The medical face mask is a medical device, generally composed of a filter layer that is placed, bonded or moulded between layers of fabric.	Complied	P
	The medical face mask shall not disintegrate, split or tear during intended use.	Complied	P
	In the selection of the filter and layer materials, attention shall be paid to cleanliness.	Complied	P
5.1.2	Design		P
	The medical face mask shall have a means by which it can be fitted closely over the nose, mouth and chin of the wearer and which ensures that the mask fits closely at the sides.	Complied	P
	Medical face masks may have different shapes and constructions as well as additional features such as a face shield (to protect the wearer against splashes and droplets) with or without anti-fog function, or a nose bridge (to enhance fit by conforming to the nose contours).	Complied	P
5.2	Performance requirements		P
5.2.1	General		P
	All tests shall be carried out on finished products or samples cut from finished products.		P
5.2.2	Bacterial filtration efficiency (BFE)		P
	When tested in accordance with Annex B, the BFE of the medical face mask shall conform to the minimum value given for the relevant type in Table 1.1 1.2.	The Bacterial Filtration Efficiency $\geq 95\%$ See appended Table 5.2.2	P
	For thick and rigid masks such as rigid duckbill or cup masks the test method may not be suitable as a proper seal cannot be maintained in the cascade impactor. In these cases, another valid equivalent method shall be used to determine the BFE.	Not such masks	N/A

EN 14683:2019+AC:2019			
Clause	Requirement + Test	Result - Remark	Verdict
	When a mask consists of two or more areas with different characteristics or different layer-composition, each panel or area shall be tested individually.		N/A
	The lowest performing panel or area shall determine the BFE value of the complete mask		N/A
5.2.3	Breathability		P
	When tested in accordance with Annex C, the differential pressure of the medical face mask shall conform to the value given for the relevant type in Table 2.1 2.2.	The differential pressure <40Pa/cm ² See appended Table 5.2.3	P
	If the use of a respiratory protective device as face mask is required in an operating theatre and/or other medical settings, it might not fulfil the performance requirements with regard to differential pressure as defined in this European Standard. In such case, the device should fulfil the requirement as specified in the relevant Personal Protective Equipment (PPE) standard(s).	No such respiratory protective device provided	N/A
5.2.4	Splash resistance		N/A
	When tested in accordance with ISO 22609:2004 the resistance of the medical face mask to penetration of splashes of liquid shall conform to the minimum value given for Type IIR in Table 1.	Not such masks	N/A
5.2.5	Microbial cleanliness (Bioburden)		P
	When tested according to EN ISO 11737-1:2018 the bioburden of the medical mask shall be ≤ 30 CFU/g tested (see Table 3.1 3.2).	The bioburden of the medical mask was ≤30 CFU/g See appended Table 5.2.5	P
5.2.6	Biocompatibility		P
	According to the definition and classification in EN ISO 10993-1:2009, a medical face mask is a surface device with limited contact.	The biocompatibility of mask was evaluated in following report: CSTBR20030057 CSTBR20030058 CSTBR20030059	P
	The manufacturer shall complete the evaluation of the medical face mask according to EN ISO 10993-1:2009 and determine the applicable toxicology testing regime.	The biocompatibility of mask was evaluated in following report: CSTBR20030057 CSTBR20030058 CSTBR20030059	P
	The results of testing should be documented according to the applicable parts of the EN ISO 10993 series.	The biocompatibility of mask was evaluated in following report: CSTBR20030057 CSTBR20030058 CSTBR20030059	P

EN 14683:2019+AC:2019			
Clause	Requirement + Test	Result - Remark	Verdict
	The test results shall be available upon request.	The biocompatibility of mask was evaluated in following report: CSTBR20030057 CSTBR20030058 CSTBR20030059	P
6	Marking, labelling and packaging		P
	Annex I, §13, of the Medical Devices Directive (93/42/EEC) or Annex I, §23, of the Medical Device Regulation (EU) 2017/745 specifies the information that should be specified on the packaging in which the medical face mask is supplied.	Considered	P
	The following information shall be supplied:		P
	a) number of this European Standard;	EN 14683:2019	P
	b) type of mask (as indicated in Table 1).	Type I	P
	EN ISO 15223-1:2016 and EN 1041:2008+A1:2013 should be considered.	Compliance	P

EN 14683:2019+AC:2019			
Clause	Requirement + Test	Result - Remark	Verdict

5.2.2		TABLE: Bacterial filtration efficiency (BFE)						P
Batch/ lot no.:	Test Speci- men no.:	Dimension of the test specimen L x W (mm x mm)	test area (cm ²)	Flow rate (l/min)	Mean of the total plate counts of the two positive controls	Mean plate count of the negative controls	BFE for each test specimen (%)	Remarks
Flat Pleated Ear Loops	1	100x100	100	28.3	2490	0	97.0	≥95
	2	100x100	100	28.3	2489	0	98.0	≥95
	3	100x100	100	28.3	2385	0	97.0	≥95
	4	100x100	100	28.3	2357	0	97.0	≥95
	5	100x100	100	28.3	2524	0	97.0	≥95

Supplementary information:

1, Each specimen was conditioned at (21 ± 5)°C and (85 ± 5)% relative humidity for 4h to bring them into equilibrium with atmosphere prior to testing.

2, The side of the test specimen was facing towards the challenge aerosol:out side of mask

EN 14683:2019+AC:2019					
Clause	Requirement + Test			Result - Remark	Verdict
5.2.3	TABLE: Breathability (Differential pressure)				P
Batch/ lot no.:	Test Specimen number- Test area number	Differential pressure for each test area (Pa/cm ²)	The averaged differential pressure for each test specimen (Pa/cm ²)	Flow rate (l/min)	Remarks
Flat Pleated Ear Loops	1-1	31.0	30.9	8	<40
	1-2	30.7		8	<40
	1-3	31.2		8	<40
	1-4	30.9		8	<40
	1-5	30.7		8	<40
	2-1	37.6	37.1	8	<40
	2-2	37.0		8	<40
	2-3	36.7		8	<40
	2-4	37.2		8	<40
	2-5	37.0		8	<40
	3-1	39.2	38.9	8	<40
	3-2	39.0		8	<40
	3-3	38.6		8	<40
	3-4	39.0		8	<40
	3-5	38.7		8	<40
	4-1	39.1	38.5	8	<40
	4-2	39.0		8	<40
	4-3	38.5		8	<40
	4-4	37.9		8	<40
	4-5	38.0		8	<40
5-1	37.2	36.8	8	<40	
5-2	36.7		8	<40	
5-3	36.8		8	<40	
5-4	36.3		8	<40	
5-5	37.0		8	<40	
Supplementary information:					
Each specimen was conditioned at (21 ± 5) °C and (85 ± 5) % relative humidity for 4h to bring them into equilibrium with atmosphere prior to testing					

EN 14683:2019+AC:2019				
Clause	Requirement + Test		Result - Remark	Verdict
5.2.4	TABLE: Splash resistance			N/A
Batch/ lot no.:	Test mask no.:	The material of tested mask	Test result (Pass/fail)	Remarks
	1	-	-	-
	2	-	-	-
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
	8	-	-	-
	9	-	-	-
	10	-	-	-
	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	-	-	-
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	16	-	-	-
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	18	-	-	-
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	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
	24	-	-	-
	25	-	-	-
	26	-	-	-
	27	-	-	-
	28	-	-	-
	29	-	-	-

EN 14683:2019+AC:2019				
Clause	Requirement + Test	Result - Remark		Verdict
	30	-	-	-
	31	-	-	-
	32	-	-	-

Supplementary information:

1, Each specimen was conditioned at _°C and % relative humidity for ___h to bring them into equilibrium with atmosphere prior to testing.

2, The description of target area tested:

3, Any technique used to enhance visual detection of synthetic blood:_____

4, The temperature and relative humidity for testing: ___ °C and ___ %

5, Description of any pre-treatment techniques used:_____

5.2.5	TABLE: Microbial cleanliness (Bioburden)				P
Batch/ lot no.:	Mask(under test) no.:	Weight of each mask (g)	Total bioburden per individual mask (CFU/g)	Remarks	
Flat Pleated Ear Loops	1	3.1	13.9	≤30	
	2	3.1	13.5	≤30	
	3	3.1	13.9	≤30	
	4	3.0	13.0	≤30	
	5	3.0	13.7	≤30	

Supplementary information:

The plates are incubated for 3 days at 30 °C and 7 days at (20 to 25) °C for TSA and SDA plates respectively.

END OF TEST REPORT, CONTINUED AS ATTACHMENT 1

EN 14683:2019+AC:2019				
Clause	Requirement + Test	Result - Remark		Verdict
	30	-	-	-
	31	-	-	-
	32	-	-	-

Supplementary information:

1, Each specimen was conditioned at _°C and % relative humidity for ___h to bring them into equilibrium with atmosphere prior to testing.

2, The description of target area tested:

3, Any technique used to enhance visual detection of synthetic blood:_____

4, The temperature and relative humidity for testing: ___ °C and ___ %

5, Description of any pre-treatment techniques used:_____

5.2.5	TABLE: Microbial cleanliness (Bioburden)				P
Batch/ lot no.:	Mask(under test) no.:	Weight of each mask (g)	Total bioburden per individual mask (CFU/g)	Remarks	
Flat Pleated Ear Loops	1	3.1	13.9	≤30	
	2	3.1	13.5	≤30	
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	4	3.0	13.0	≤30	
	5	3.0	13.7	≤30	

Supplementary information:

The plates are incubated for 3 days at 30 °C and 7 days at (20 to 25) °C for TSA and SDA plates respectively.

END OF TEST REPORT, CONTINUED AS ATTACHMENT 1



PHOTO DOCUMENTATION

for

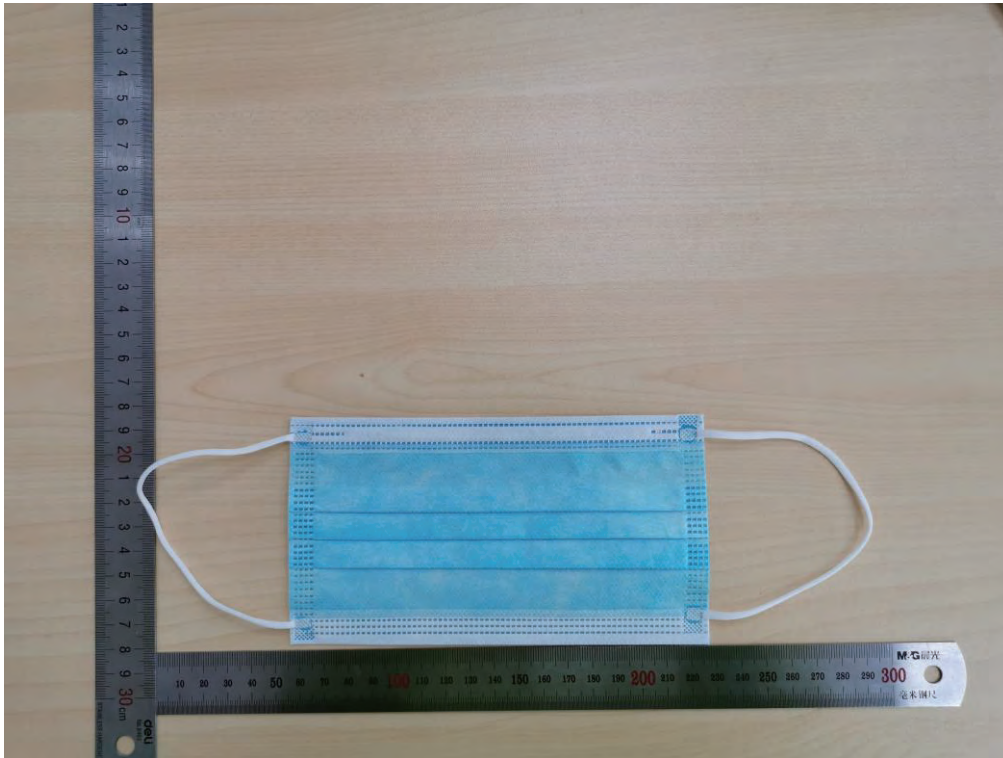
**Medical Face Masks
Flat Pleated Ear Loops**

Jinhua Xinfeng Packaging Material Co. Ltd



This documentation consists of 2 pages (excluding this cover page).

Pic.1: The obverse side view of **Flat Pleated Ear Loops**



Pic.2: The reverse side view of **Flat Pleated Ear Loops**

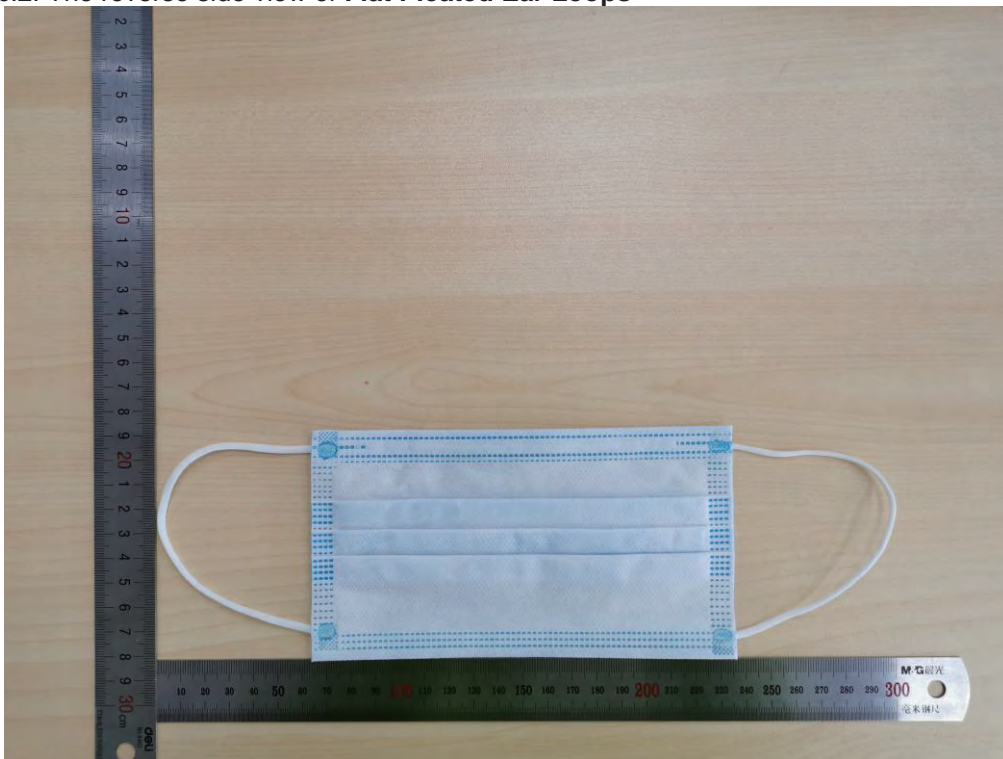


Photo Documentation



Report Number: 60361105 001

Attachment 1

Model: Flat Pleated Ear Loops

Pic.3: Marking, labelling and packaging of **Flat Pleated Ear Loops**



CE Technical Documentation Review Report

Applicant: Guangxi Guigang Bairui Medical Equipment Co. Ltd
Standard Factory Building B2, Shika Industrial Park,
Qintang District, Guigang, Guangxi , China

Report Number: 60355567-001

Examination intent: Examination the completeness of the Technical Documentation according to the requirements of REGULATION (EU) 2017/745, Annex II

Product(s): Medical Face Masks

Type(s)/Model(s): Type I

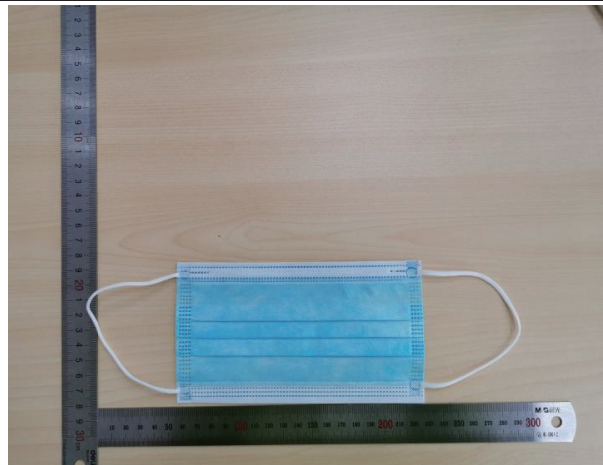
Classification: Class I
(according to manufacturer's declaration)

Examination period: Mar.27.2020

Date of expiry: Mar.26.2025

Review result: During the examination of the provided Technical Documentation (No.: YKY-CE-01, Version A/0, Dated 2020-Mar-16), no Non-compliance according to the requirements of REGULATION (EU) 2017/745, Annex II was detected.


Yuhong CHEN
Vice General Manager, Medical Greater China
TÜV Rheinland (China) Ltd.

Prüfbericht-Nr.: Test Report No.:	60361105 001	Auftrags-Nr.: Order No.:	190104843	Seite 1 von 12 Page 1 of 12
Kunden-Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	2019-09-27	
Auftraggeber: Client:	Guangxi Guigang Bairui Medical Equipment Co. Ltd Standard Factory Building B2, Shika Industrial Park, Qintang District, Guigang, Guangxi P.R. C			
Prüfgegenstand: Test item:	Medical Face Masks			
Bezeichnung / Typ-Nr.: Identification / Type No.:	Flat Pleated Ear Loops			
Auftrags-Inhalt: Order content:	Type test			
Prüfgrundlage: Test specification:	EN 14683:2019+AC:2019			
Wareneingangsdatum: Date of receipt:	2020-02-14			
Prüfmuster-Nr.: Test sample No.:	Engineering sample			
Prüfzeitraum: Testing period:	2020-02-14 to 2020-03-24			
Ort der Prüfung: Place of testing:	TÜV Rheinland (China) Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (China) Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
2020-04-13 Su Meng / Project Engineer		2020-04-13 Han Dong / Reviewer		
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position
				Unterschrift Signature
Sonstiges / Other:				
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Total number of pages	See cover page
Testing Laboratory	TÜV Rheinland (China) Ltd.
Address	Unit 707, AVIC Building, No. 10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing 100022, P,R, China
Applicant's name	Guangxi Guigang Bairui Medical Equipment Co. Ltd
Address	Standard Factory Building B2, Shika Industrial Park, Qintang District, Guigang, Guangxi P.R. C
Test specification:	
Standard	EN 14683:2019+AC:2019
Test procedure	Type test
Non-standard test method	N/A
Test Report Form No.	EN 14683:2019+AC:2019_A
Test Report Form Originator	TÜV Rh (SZ)
Master TRF	2020-03
Test item description	Medical Face Masks
Trade Mark	Bairuijian Guangxi Guigang Bairui Medical Equipment Co. Ltd
Manufacturer	Standard Factory Building B2, Shika Industrial Park, Qintang District, Guigang, Guangxi P.R. C.
Model/Type reference	Flat Pleated Ear Loops
Classification	Type I

List of Attachments (including a total number of pages in each attachment):

- Attachment 1. Photos documentation (2 pages).

Summary of testing:

Tests performed (name of test and test clause):

Clause 5.2.2: Bacterial filtration efficiency (BFE);

Clause 5.2.3: Breathability;

Clause 5.2.5: Microbial cleanliness (Bioburden).

Note: All tests listed as above have been conducted in the competent external lab under the supervision of a TUV engineer

Copy of marking plate

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Label for **Flat Pleated Ear Loops**

Testing Date of receipt of test item(s): 2020-02-14 Dates of tests performed: 2020-02-14 to 2020-03-24
Possible test case verdicts: - test case does not apply to the test object : N/A - test object does meet the requirement : P (Pass) - test object was not evaluated for the requirement : N/E (collateral standards only) - test object does not meet the requirement : F (Fail)
General remarks: "(See Attachment #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. The tests results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory. List of test equipment must be kept on file and available for review. Additional test data and/or information provided in the attachments to this report. Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.
Name and address of factory (ies) : Guangxi Guigang Bairui Medical Equipment Co. Ltd Standard Factory Building B2, Shika Industrial Park, Qintang District, Guigang, Guangxi P.R. C.
General product information: Intended use: The Medical Face Masks are intended to be worn by patients and other persons to reduce the risk of spread of infections particularly in epidemic or pandemic situations.

EN 14683:2019+AC:2019			
Clause	Requirement + Test	Result - Remark	Verdict
4	Classification		P
	Medical face masks specified in this European Standard are classified into two types (Type I and Type II) according to bacterial filtration efficiency whereby Type II is further divided according to whether or not the mask is splash resistant. The 'R' signifies splash resistance.	Type I	P
5	Requirements		P
5.1	General		P
5.1.1	Materials and construction		P
	The medical face mask is a medical device, generally composed of a filter layer that is placed, bonded or moulded between layers of fabric.	Complied	P
	The medical face mask shall not disintegrate, split or tear during intended use.	Complied	P
	In the selection of the filter and layer materials, attention shall be paid to cleanliness.	Complied	P
5.1.2	Design		P
	The medical face mask shall have a means by which it can be fitted closely over the nose, mouth and chin of the wearer and which ensures that the mask fits closely at the sides.	Complied	P
	Medical face masks may have different shapes and constructions as well as additional features such as a face shield (to protect the wearer against splashes and droplets) with or without anti-fog function, or a nose bridge (to enhance fit by conforming to the nose contours).	Complied	P
5.2	Performance requirements		P
5.2.1	General		P
	All tests shall be carried out on finished products or samples cut from finished products.		P
5.2.2	Bacterial filtration efficiency (BFE)		P
	When tested in accordance with Annex B, the BFE of the medical face mask shall conform to the minimum value given for the relevant type in Table 1.1 1.2.	The Bacterial Filtration Efficiency $\geq 95\%$ See appended Table 5.2.2	P
	For thick and rigid masks such as rigid duckbill or cup masks the test method may not be suitable as a proper seal cannot be maintained in the cascade impactor. In these cases, another valid equivalent method shall be used to determine the BFE.	Not such masks	N/A

EN 14683:2019+AC:2019			
Clause	Requirement + Test	Result - Remark	Verdict
	When a mask consists of two or more areas with different characteristics or different layer-composition, each panel or area shall be tested individually.		N/A
	The lowest performing panel or area shall determine the BFE value of the complete mask		N/A
5.2.3	Breathability		P
	When tested in accordance with Annex C, the differential pressure of the medical face mask shall conform to the value given for the relevant type in Table 2.1 2.2.	The differential pressure <math><40\text{Pa}/\text{cm}^2</math> See appended Table 5.2.3	P
	If the use of a respiratory protective device as face mask is required in an operating theatre and/or other medical settings, it might not fulfil the performance requirements with regard to differential pressure as defined in this European Standard. In such case, the device should fulfil the requirement as specified in the relevant Personal Protective Equipment (PPE) standard(s).	No such respiratory protective device provided	N/A
5.2.4	Splash resistance		N/A
	When tested in accordance with ISO 22609:2004 the resistance of the medical face mask to penetration of splashes of liquid shall conform to the minimum value given for Type IIR in Table 1.	Not such masks	N/A
5.2.5	Microbial cleanliness (Bioburden)		P
	When tested according to EN ISO 11737-1:2018 the bioburden of the medical mask shall be ≤ 30 CFU/g tested (see Table 3.1 3.2).	The bioburden of the medical mask was ≤ 30 CFU/g See appended Table 5.2.5	P
5.2.6	Biocompatibility		P
	According to the definition and classification in EN ISO 10993-1:2009, a medical face mask is a surface device with limited contact.	The biocompatibility of mask was evaluated in following report: CSTBR20030057 CSTBR20030058 CSTBR20030059	P
	The manufacturer shall complete the evaluation of the medical face mask according to EN ISO 10993-1:2009 and determine the applicable toxicology testing regime.	The biocompatibility of mask was evaluated in following report: CSTBR20030057 CSTBR20030058 CSTBR20030059	P
	The results of testing should be documented according to the applicable parts of the EN ISO 10993 series.	The biocompatibility of mask was evaluated in following report: CSTBR20030057 CSTBR20030058 CSTBR20030059	P

EN 14683:2019+AC:2019			
Clause	Requirement + Test	Result - Remark	Verdict
	The test results shall be available upon request.	The biocompatibility of mask was evaluated in following report: CSTBR20030057 CSTBR20030058 CSTBR20030059	P
6	Marking, labelling and packaging		P
	Annex I, §13, of the Medical Devices Directive (93/42/EEC) or Annex I, §23, of the Medical Device Regulation (EU) 2017/745 specifies the information that should be specified on the packaging in which the medical face mask is supplied.	Considered	P
	The following information shall be supplied:		P
	a) number of this European Standard;	EN 14683:2019	P
	b) type of mask (as indicated in Table 1).	Type I	P
	EN ISO 15223-1:2016 and EN 1041:2008+A1:2013 should be considered.	Compliance	P

EN 14683:2019+AC:2019			
Clause	Requirement + Test	Result - Remark	Verdict

5.2.2		TABLE: Bacterial filtration efficiency (BFE)						P
Batch/ lot no.:	Test Speci- men no.:	Dimension of the test specimen L x W (mm x mm)	test area (cm ²)	Flow rate (l/min)	Mean of the total plate counts of the two positive controls	Mean plate count of the negative controls	BFE for each test specimen (%)	Remarks
Flat Pleated Ear Loops	1	100×100	100	28.3	2490	0	97.0	≥95
	2	100×100	100	28.3	2489	0	98.0	≥95
	3	100×100	100	28.3	2385	0	97.0	≥95
	4	100×100	100	28.3	2357	0	97.0	≥95
	5	100×100	100	28.3	2524	0	97.0	≥95

Supplementary information:

- 1, Each specimen was conditioned at (21 ± 5)°C and (85 ± 5)% relative humidity for 4h to bring them into equilibrium with atmosphere prior to testing.
- 2, The side of the test specimen was facing towards the challenge aerosol:out side of mask

EN 14683:2019+AC:2019					
Clause	Requirement + Test			Result - Remark	Verdict
5.2.3	TABLE: Breathability (Differential pressure)				P
Batch/ lot no.:	Test Specimen number- Test area number	Differential pressure for each test area (Pa/cm ²)	The averaged differential pressure for each test specimen (Pa/cm ²)	Flow rate (l/min)	Remarks
Flat Pleated Ear Loops	1-1	31.0	30.9	8	<40
	1-2	30.7		8	<40
	1-3	31.2		8	<40
	1-4	30.9		8	<40
	1-5	30.7		8	<40
	2-1	37.6	37.1	8	<40
	2-2	37.0		8	<40
	2-3	36.7		8	<40
	2-4	37.2		8	<40
	2-5	37.0		8	<40
	3-1	39.2	38.9	8	<40
	3-2	39.0		8	<40
	3-3	38.6		8	<40
	3-4	39.0		8	<40
	3-5	38.7		8	<40
	4-1	39.1	38.5	8	<40
	4-2	39.0		8	<40
	4-3	38.5		8	<40
	4-4	37.9		8	<40
	4-5	38.0		8	<40
5-1	37.2	36.8	8	<40	
5-2	36.7		8	<40	
5-3	36.8		8	<40	
5-4	36.3		8	<40	
5-5	37.0		8	<40	
Supplementary information:					
Each specimen was conditioned at (21 ± 5) °C and (85 ± 5) % relative humidity for 4h to bring them into equilibrium with atmosphere prior to testing					

EN 14683:2019+AC:2019				
Clause	Requirement + Test	Result - Remark		Verdict
5.2.4	TABLE: Splash resistance			N/A
Batch/ lot no.:	Test mask no.:	The material of tested mask	Test result (Pass/fail)	Remarks
	1	-	-	-
	2	-	-	-
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
	8	-	-	-
	9	-	-	-
	10	-	-	-
	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
	24	-	-	-
	25	-	-	-
	26	-	-	-
	27	-	-	-
	28	-	-	-
	29	-	-	-

EN 14683:2019+AC:2019				
Clause	Requirement + Test	Result - Remark		Verdict
	30	-	-	-
	31	-	-	-
	32	-	-	-

Supplementary information:

1, Each specimen was conditioned at _°C and % relative humidity for __h to bring them into equilibrium with atmosphere prior to testing.

2, The description of target area tested:

3, Any technique used to enhance visual detection of synthetic blood:_____

4, The temperature and relative humidity for testing: ___ °C and ___ %

5, Description of any pre-treatment techniques used:_____

5.2.5	TABLE: Microbial cleanliness (Bioburden)				P
Batch/ lot no.:	Mask(under test) no.:	Weight of each mask (g)	Total bioburden per individual mask (CFU/g)	Remarks	
Flat Pleated Ear Loops	1	3.1	13.9	≤30	
	2	3.1	13.5	≤30	
	3	3.1	13.9	≤30	
	4	3.0	13.0	≤30	
	5	3.0	13.7	≤30	

Supplementary information:

The plates are incubated for 3 days at 30 °C and 7 days at (20 to 25) °C for TSA and SDA plates respectively.

END OF TEST REPORT, CONTINUED AS ATTACHMENT 1

EN 14683:2019+AC:2019				
Clause	Requirement + Test	Result - Remark		Verdict
	30	-	-	-
	31	-	-	-
	32	-	-	-

Supplementary information:

1, Each specimen was conditioned at _°C and % relative humidity for __h to bring them into equilibrium with atmosphere prior to testing.

2, The description of target area tested:

3, Any technique used to enhance visual detection of synthetic blood:_____

4, The temperature and relative humidity for testing: ___ °C and ___ %

5, Description of any pre-treatment techniques used:_____

5.2.5	TABLE: Microbial cleanliness (Bioburden)				P
Batch/ lot no.:	Mask(under test) no.:	Weight of each mask (g)	Total bioburden per individual mask (CFU/g)	Remarks	
Flat Pleated Ear Loops	1	3.1	13.9	≤30	
	2	3.1	13.5	≤30	
	3	3.1	13.9	≤30	
	4	3.0	13.0	≤30	
	5	3.0	13.7	≤30	

Supplementary information:

The plates are incubated for 3 days at 30 °C and 7 days at (20 to 25) °C for TSA and SDA plates respectively.

END OF TEST REPORT, CONTINUED AS ATTACHMENT 1

PHOTO DOCUMENTATION

for

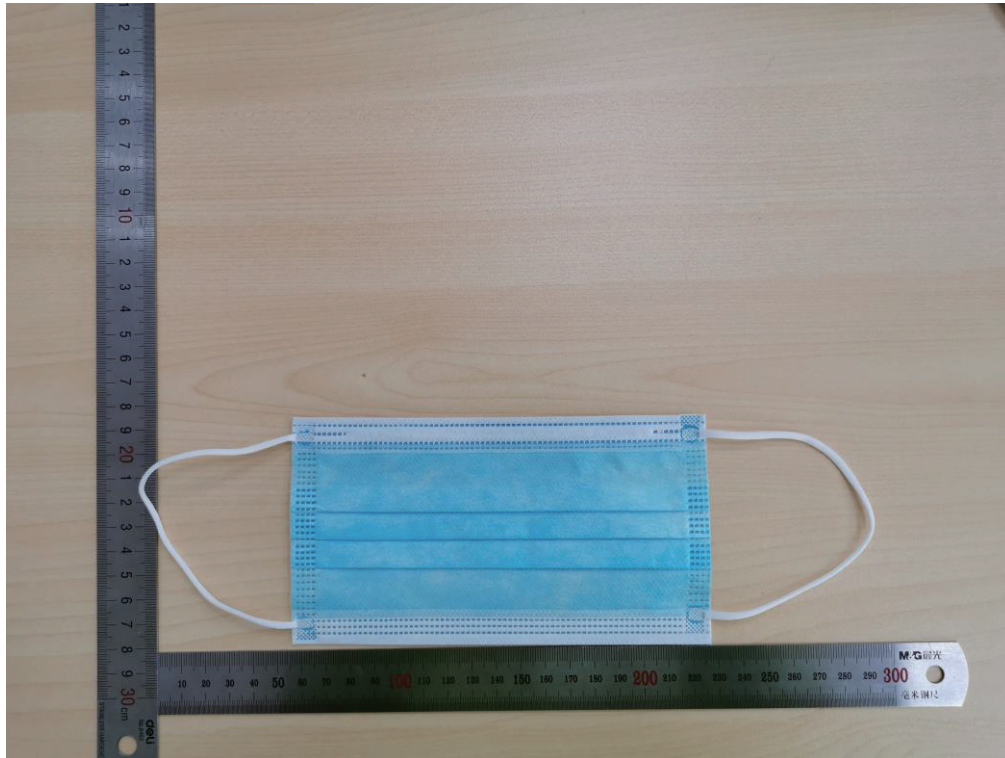
**Medical Face Masks
Flat Pleated Ear Loops**

Guangxi Guigang Bairui Medical Equipment Co. Ltd

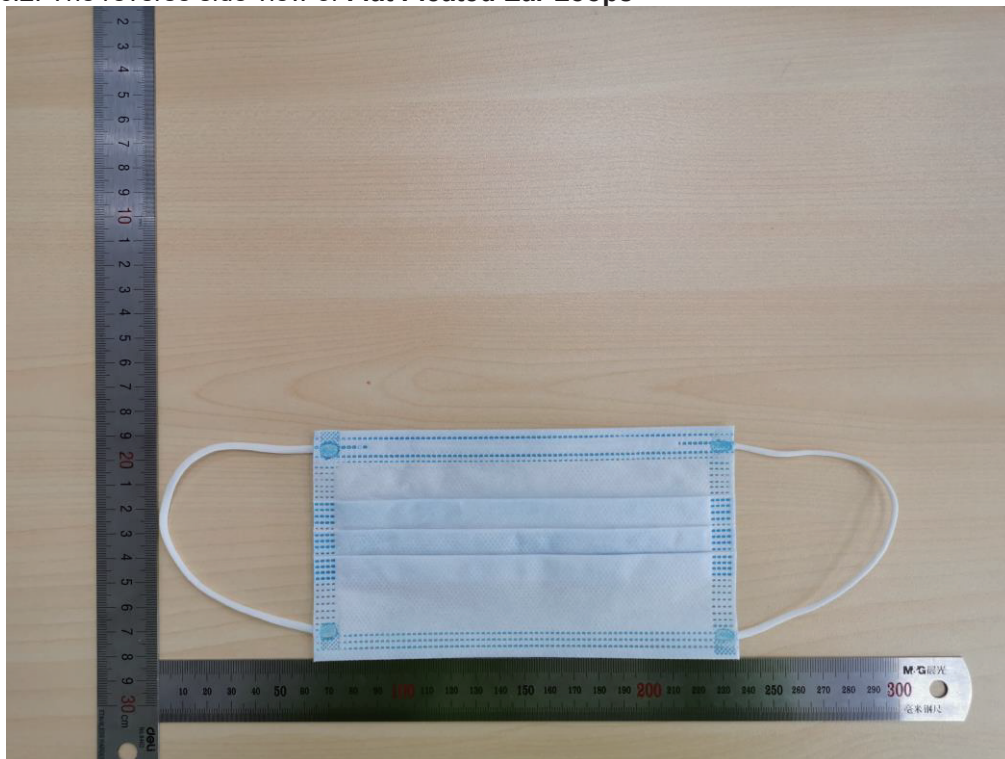


This documentation consists of 2 pages (excluding this cover page).

Pic.1: The obverse side view of **Flat Pleated Ear Loops**



Pic.2: The reverse side view of **Flat Pleated Ear Loops**



Pic.3: Marking, labelling and packaging of **Flat Pleated Ear Loops**