

60377050 001 168264746 Seite 1 von 12 Prüfbericht-Nr.: Auftrags-Nr. Order No.: Page 1 of 12 Test Report No.: Kunden-Referenz-Nr.: N/A Auftragsdatum: May 13, 2020 Client Reference No.: Order date:

Hunan EEXI Technology & Service Co., Ltd.

Auftraggeber: No.6, North of Pingtou road, Liuyang Hi-tech industrial development zone, Hunan,

Client:

Prüfgegenstand: Disposable Medical Face Mask

Test item:

Bezeichnung / Typ-Nr.: YX005

Identification / Type No.:

Auftrags-Inhalt:

Type test Order content:

EN 14683:2019+AC:2019 except for clause 5.2.6 Prüfgrundlage:

Test specification:

Wareneingangsdatum: May 14, 2020

Date of receipt:

Prüfmuster-Nr.: 20200504

Test sample No.:

Prüfzeitraum: May 14, 2020 to May 28, 2020

Testing period:

Place of testing:

Ort der Prüfung: See page 3

Prüflaboratorium: TÜV Rheinland (Shenzhen)

Testing laboratory: Co., Ltd.

Prüfergebnis*: Test result*:

Pass

Angelad

kontrolliert von I reviewed by:

See Attachment: Photo documentation for details.

geprüft von / tested by:

Lucy Jiang

May 29, 2020 Lucy Jiang / Assistant Project Engineer May 29, 2020 Angela Chen / Department Manager

Unterschrift Unterschrift Datum Name / Stellung Datum Name / Stellung Name / Position Signature Date Name / Position Signature Date

Sonstiges / Other:

- The test report consists of EN 14683 test report including this cover page (12 pages) and attachment: Photo documentation (6 pages).

- The Biocompatibility (clause 5.2.6) is not evaluated in this test report.

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Condition of the test item at delivery: Test item complete and undamaged

* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft N/T = nicht getestet P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar 3 = satisfactory 4 = sufficient Legend: 1 = very good 2 = good5 = poorP(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.

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.





EN 14683:2019+AC: 2019 Medical face masks — Requirements and test methods

Testing Laboratory TÜV Rheinland (Shenzhen) Co., Ltd.

Address.....: 1F East & 2-4F, Cybio Technology Building No.1, No.16 Kejibei 2nd

Road, High-Tech Industrial Park North Nanshan District, 518057,

Shenzhen, China

Applicant's name: Hunan EEXI Technology & Service Co., Ltd.

zone, Hunan, China

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....: Disposable Medical Face Mask

Trade Mark....::

E-You) 一**付**

Manufacturer: Same as the applicant

Model/Type reference :: YX005 Classification :: Type I



| Testing location: TÜV Rheinland (Shenzhen) Co., Ltd. |
|---|
| 1F East & 2-4F, Cybio Technology Building No.1, No.16 Kejibei 2nd Road, High-Tech Industrial Park North Nanshan District, 518057, Shenzhen, China |
| Sichuan Testing Center of Medical Devices |
| No. 4-28, Xinye Road, High tech west Area, Chengdu, Sichuan, 611731, P.R.China |
| |



Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Instruction

Article No.: YX005

Date of preparation of the manual: April 10, 2020 Manual version number: E1 Please refer to the instructions before use

Product name: Disposable medical face mask Type and Specification: Flat earloop, 14.5×9cm

Type: Type I

Applicable standard: EN 14683:2019+AC:2019 YY/T 0969-2013
Production license No.: Hunan Food&Drug Administration permission 20200023
Registration No.: Hunan medical device registration permission 20202140297
Intended Use:

The medical face mask is single-use, disposable device, provided non-sterile, and intended to be used for patients and other persons to reduce the risk of spread of infections particularly in epidemic or pandemic situations.

Structure and Components:

This mask is made by blank mask, nose piece and ear loops. The blank mask is made by three layers. The inner and outer layer are non-woven fabric, the middle layer is Melt-blown polypropylene.

Main performance:

- 1) Bacterial filtration efficiency: ≥95%,
- 2) Differential Pressure: <40 Pa/cm 2;
- Microbial cleanliness: ≤30 cfu/g.

Introduction for use:

- 1) Open the package and remove a mask.
- 2) Hold the mask by the ear loops, confirm that the colored side is front and the nose piece is on the top of the mask. Hang the ear loops over your ears and mold the nose piece to the shape of your nose, pull the bottom of the mask over your mouth and chin.

Precautions:

- Check the package is intact before use, conform the masks and date of manufacture on the external package, and use it before the expiry date.
- 2) If you are allergic to non-woven fabric, be cautious using this product.
- After using the product, please dispose of it according to the requirements of the environments protection agency or related authorities.
- 4) This product is a disposable device. It is not recommended to the clean or reuse it. If you feel uncomfortable during use, please stop using it immediately or replace it with a new one.

Storage:

Store in a dry, well-ventilated, non-corrosive gas place, avoid high temperature.

Shelf life: 2 years.

Meaning of package symbols:

| symbol | Explanation | Conf. | Means "Date of manufacture" |
|------------|--|--------|--|
| (2) | Means "Do not reruse" | 2 | Means "Use by date" |
| (N) (S) | Means 'Do not use if package is damaged' | (6.01) | Means 'Batch code' |
| * | Means 'Keep away from sunlight' | and . | Means "Manufacturer" |
| + | Means 'Keep dry' | 3636 | Means "Authorized representative in the European Community" |

Batch code: refer to package

Date of manufacture: refer to package

Use by date: refer to package

Authorized representative in the European Community: SUNGO Europe B.V.

Address: Olympisch Stadion 24, 1076DE Amsterdam, Netherlands

Contact Person: SUNGO Secretary E-mai: ec.rep@sungogroup.com

Manufacturer: Hunan EEXI Technology & Service Co., LTD.

Address: No. 6 North of Pingtou Road, Liuyang Hi-tech Industrial Development Zone,

Hunan, China.

Website: www.hunaneexi.com

See attachment for other information.



| Testing | |
|---|--|
| Date of receipt of test item(s) | . • |
| Dates of tests performed | See cover page |
| 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: I | N/E (collateral standards only) |
| - test object does not meet the requirement: : | F (Fail) |
| | |
| General remarks: "(See Attachment #)" refers to additional information ap "(See appended table)" refers to a table appended to the state of the tests results presented in this report relate only to a state of the test of the test of the test of the test equipment must be kept on file and available additional test data and/or information provided in the a state of the test of test of the test of te | the report. the object tested. ut the written approval of the testing laboratory. e for review. attachments to this report. ed as the decimal separator. |
| Conoral product informations | |
| General product information: | |
| 1, The tested medical mask classified as Type I. 2, The Biocompatibility (clause 5.2.6) is not evaluate 3, The test results are for reference only. Relevant of intended to be sold in Europe. | |



| | EN 14683:2019+AC:20 | 19 | |
|--------|--|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| 4 | Classification | | Р |
| | 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 | Р |
| 5 | Requirements | | Р |
| 5.1 | General | | Р |
| 5.1.1 | Materials and construction | | Р |
| | The medical face mask is a medical device, generally composed of a filter layer that is placed, bonded or moulded between layers of fabric. | The Disposable Medical Face Masks are made of blank mask, nose clip and ear loops. The outer and inner layers of the mask are made of non-woven fabrics, and the middle layer is made of melt-blown polypropylene. | Р |
| | The medical face mask shall not disintegrate, split or tear during intended use. | | Р |
| | In the selection of the filter and layer materials, attention shall be paid to cleanliness. | | Р |
| 5.1.2 | Design | | Р |
| | 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. | | Р |
| | 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). | With nose clip. | Р |
| 5.2 | Performance requirements | | Р |
| 5.2.1 | General | | Р |
| | All tests shall be carried out on finished products or samples cut from finished products. | | Р |
| 5.2.2 | Bacterial filtration efficiency (BFE) | | Р |
| | 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. | See appended table 5.2.2 | Р |



| | EN 14683:2019+AC:20 | 19 | |
|--------|--|---|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | 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 mask. | N/A |
| | When a mask consists of two or more areas with different characteristics or different layer-composition, each panel or area shall be tested individually. | Same characteristics and same layer-composition declared by manufacturer. | N/A |
| | The lowest performing panel or area shall determine the BFE value of the complete mask | See above | N/A |
| 5.2.3 | Breathability | | Р |
| | 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 1. | See appended table 5.2.3 | Р |
| | 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). | | 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. | See appended table 5.2.4 Type I mask. | N/A |
| 5.2.5 | Microbial cleanliness (Bioburden) | | Р |
| | When tested according to EN ISO 11737-1:2018 the bioburden of the medical mask shall be ≤ 30 CFU/g tested (see Table 1). | See appended table 5.2.5 | Р |
| 5.2.6 | Biocompatibility | | N/E |
| | 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 is not evaluated in this test report. | N/E |
| | 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. | | N/E |
| | The results of testing should be documented according to the applicable parts of the EN ISO 10993 series. | | N/E |
| | The test results shall be available upon request. | | N/E |
| 6 | Marking, labelling and packaging | | Р |



| | EN 14683:2019+AC:20 | 19 | |
|--------|---|----------------------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | 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 | See page 4 and attachment. | Р |
| | should be specified on the packaging in which the medical face mask is supplied. | | |
| | The following information shall be supplied: | | Р |
| | a) number of this European Standard; | | Р |
| | b) type of mask (as indicated in Table 1). | | Р |
| | EN ISO 15223-1:2016 and EN 1041:2008+A1:2013 should be considered. | | Р |

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| | | EN 14683:2019+AC:201 | 19 | |
|--------|--------------------|----------------------|-----------------|---------|
| Clause | Requirement + Test | | Result - Remark | Verdict |

| 5.2.2 | 1 | TABLE: Bacte | erial filtration | on efficiency | y (BFE) | | | Р |
|--------------------|--------------------------|--|--------------------|----------------------|---|---|---|---------|
| Batch/ lot no.: | Test Specimen no.: | Dimension of the test specimen L x W (mm x mm) | test area (cm²) | Flow rate (I/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 |
| 2020050 | 1 | 170×120 | 63.6 | 28.3 | | | 97.36% | |
| 4 | 2 | 169×119 | 63.6 | 28.3 | | | 96.11% | |
| | 3 | 170×117 | 63.6 | 28.3 | 2842 | 0 | 97.08% | |
| | 4 | 170×119 | 63.6 | 28.3 | | | 97.89% | |
| | 5 | 170×119 | 63.6 | 28.3 | | | 97.25% | |

Supplementary information:

^{1,} Each specimen was conditioned at $\underline{21}$ °C and $\underline{85}$ % relative humidity for $\underline{16}$ h to bring them into equilibrium with atmosphere prior to testing.

^{2,} The side of the test specimen was facing towards the challenge aerosol: the inside of the test specimen.



| | EN 14683:2019+AC:20 | 19 | |
|--------|---------------------|-----------------|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |

| | | TABLE: Breathability (Differential pressure) | | | | |
|-----------------------|--|---|--|----------------------|-----|-------|
| Batch/ lot no.: | Test Specimen number- Test area number | Differential pressure for each test area (Pa/cm²) | The averaged differential pressure for each test specimen (Pa/cm²) | Flow rate (I/min) | Rem | narks |
| 20200 | 1-1 | 31.0 | | 8.0 | | |
| 504 | 1-2 | 34.3 | | 8.0 | | |
| | 1-3 | 30.0 | 31.5 | 8.0 | | |
| | 1-4 | 26.3 | | 8.0 | | |
| | 1-5 | 35.8 | | 8.0 | | - |
| | 2-1 | 33.5 | | 8.0 | | - |
| | 2-2 | 32.8 | 30.8 | 8.0 | | |
| | 2-3 | 27.9 | | 8.0 | | |
| - | 2-4 | 26.8 | | 8.0 | | |
| | 2-5 | 33.0 | | 8.0 | | |
| | 3-1 | 28.7 | | 8.0 | | |
| | 3-2 | 32.2 | | 8.0 | | |
| | 3-3 | 31.1 | 29.8 | 8.0 | | |
| | 3-4 | 30.7 | | 8.0 | | |
| | 3-5 | 26.1 | | 8.0 | | |
| | 4-1 | 20.3 | | 8.0 | | |
| | 4-2 | 20.9 | | 8.0 | | |
| | 4-3 | 18.5 | 21.0 | 8.0 | | |
| | 4-4 | 23.7 | | 8.0 | | |
| | 4-5 | 21.5 | | 8.0 | | |
| | 5-1 | 35.2 | | 8.0 | | |
| | 5-2 | 33.4 | | 8.0 | | |
| | 5-3 | 29.1 | 32.0 | 8.0 | | - |
| | 5-4 | 31.1 | | 8.0 | | - |
| | 5-5 | 31.4 | | 8.0 | | |

Supplementary information:

Each specimen was conditioned at 21 °C and 85 % relative humidity for 16 h to bring them into equilibrium with



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

atmosphere prior to testing.

| Test mask no.: Test mask no.: The material of tested mask Test result (Pass/fail) Remarks | 5.2.4 | TABLE: Spl | ash resistance | | | N/A |
|---|-----------|------------|----------------|-----------|------|-------|
| 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 | Batch/ Io | t no.: | Test mask no.: | of tested | Ren | narks |
| 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 | | | 1 | | | |
| 4 5 6 6 7 7 8 8 9 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 | | | 2 | | | |
| 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 | | | 3 |] | | |
| 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 | | | 4 |] | | |
| 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 | | | 5 |] | | |
| 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 | | | 6 |] | | |
| 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 | | | 7 |] | | |
| 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 | | | 8 |] | | |
| 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 | | | 9 |] | | |
| 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 | | | 10 |] | | |
| 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 | | | 11 |] | | |
| 14 15 16 17 18 19 20 21 22 23 24 25 26 27 | | | 12 |] | | |
| 15 16 17 18 19 20 21 22 23 24 25 26 27 | | | 13 | | | |
| 16 17 18 19 20 21 22 23 24 25 26 27 | | | 14 | | | |
| 17 18 19 20 21 22 23 24 25 26 27 | | | 15 |] | | |
| 18 19 20 21 22 23 24 25 26 27 | | | 16 | | | |
| 19 20 21 22 23 24 25 26 27 | | | 17 | | | |
| 20 21 22 23 24 25 26 27 | | | 18 | | | |
| 21 22 23 24 25 26 27 | | | 19 |] | | |
| 22 23 24 25 26 27 | | | 20 |] | | |
| 23 24 25 26 27 | | | 21 |] | | |
| 24 25 26 27 | | | 22 | | | |
| 25 26 27 | | | 23 |] | | |
| 26 27 | | | 24 | | | |
| 27 | | | 25 | | | |
| | | | 26 | | | |
| 28 | | | 27 | | | |
| | | | 28 |] | | |



| EN 14683:2019+AC:2019 | | | | | | | | | | |
|-----------------------|--|----------------------|--------------------|--------------------|-----------------|-----------|--|--|--|--|
| Clause | Requirement + Tes | st | | Result - Remark | | Verdict | | | | |
| | | | | | | | | | | |
| | | 29 | | | | | | | | |
| | | 30 | | | | | | | | |
| | | 31 | | | | | | | | |
| | | 32 | | | | | | | | |
| Supplemen | ntary information: | | | | | | | | | |
| | ecimen was condition where prior to testing | | % relative hur | midity forh to bri | ng them into eq | uilibrium | | | | |
| 2, The desc | cription of target are | ea tested: | | | | | | | | |
| 3, Any tech | nique used to enhai | nce visual detection | of synthetic blood | d: | | | | | | |
| 4, The temp | perature and relative | humidity for testing | g: °C and º | %. | | | | | | |
| 5, Descripti | on of any pre-treatn | nent techniques use | d: | | | | | | | |

| 5.2.5 | TABLE: Microbial cleanliness (Bioburden) | | | | | |
|-----------------|--|-----------------------|-------------------------------|---|---------|--|
| Batch/ lot no.: | | Mask(under test) no.: | Weight of each mask (g) | Total bioburden per individual mask (CFU/g) | Remarks | |
| 20200504 | | 1 | 2.7 | 14 | | |
| | | 2 | 2.7 | <1 | | |
| | | 3 | 2.6 | 7 | | |
| | | 4 | 2.7 | <1 | | |
| | | 5 | 2.7 | <1 | | |

End of EN 14683 test report

QMF-RT-33008SHG Revision number: 1.0 Effective date: 2020-03-12

Photo Documentation

TÜVRheinland®

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<u>Product:</u> Disposable Medical Face Mask



Figure 1 Top view of Packaging box



Figure 2 Front / Back view of Packaging box

Photo Documentation



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Product: Disposable Medical Face Mask

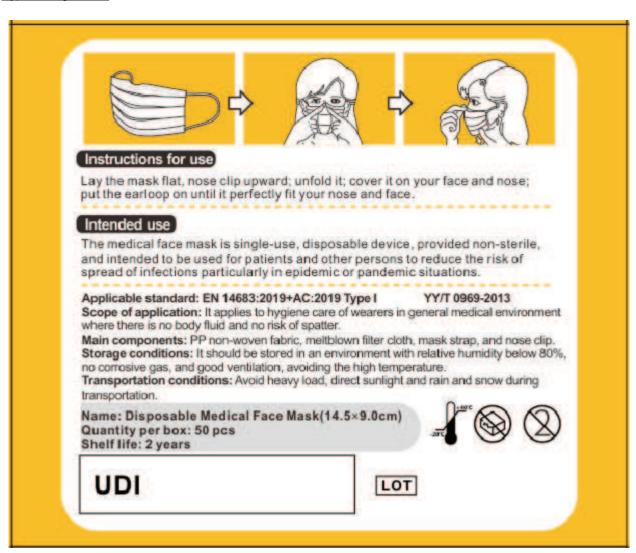


Figure 3 Side view of packaging box

Photo Documentation



Report No.: 60377050 001

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Product: Disposable Medical Face Mask

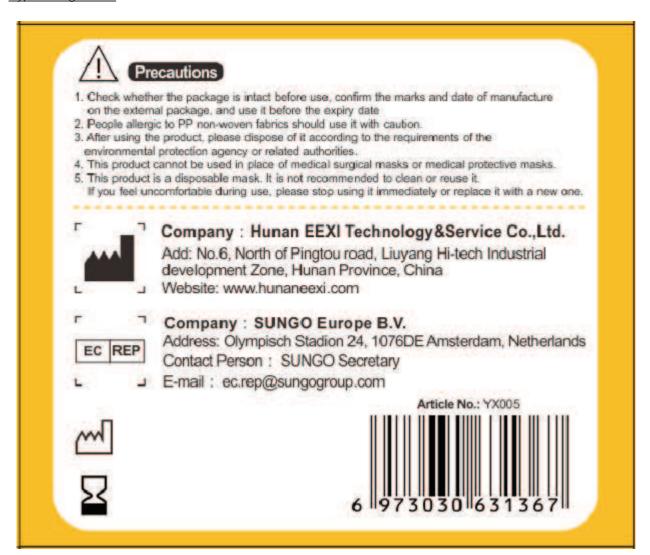


Figure 4 Side view of packaging box

Photo Documentation

TÜVRheinland®

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<u>Product:</u> Disposable Medical Face Mask



Figure 5 General view of packaging bag

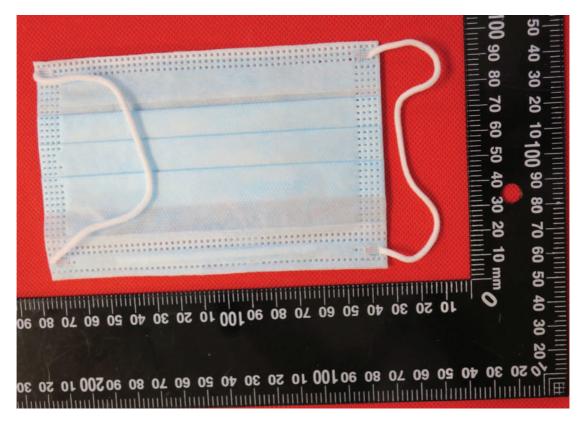


Figure 6 View of medical mask

Photo Documentation



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<u>Product:</u> Disposable Medical Face Mask



Figure 7 View of medical mask



Figure 8 View of medical mask (3 ply)

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<u>Product:</u> Disposable Medical Face Mask

Type Designation: YX005

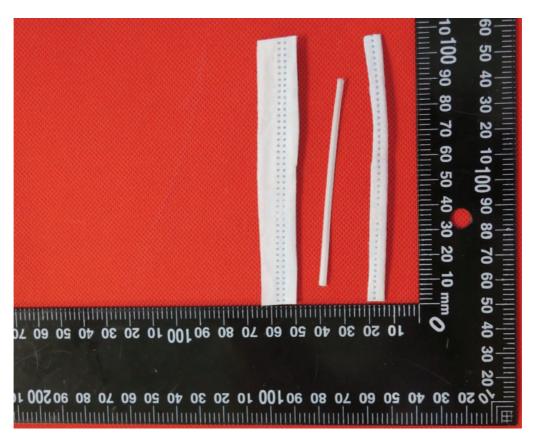


Figure 9 View of nose clip

END OF THE PHOTO DOCUMENTATION