


Prüfbericht-Nr.: <i>Test Report No.:</i>	60373798 001	Auftrags-Nr.: <i>Order No.:</i>	168263952	Seite 1 von 12 <i>Page 1 of 12</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	May 08, 2020	
Auftraggeber: <i>Client:</i>	Leotec(Guangdong)Technology Co., Ltd No.174, Wenzhou Road, Dongcheng Street, Dongguan City, Guangdong Province, China			
Prüfgegenstand: <i>Test item:</i>	Disposable Medical Mask			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	W-002			
Auftrags-Inhalt: <i>Order content:</i>	Type test			
Prüfgrundlage: <i>Test specification:</i>	EN 14683:2019+AC:2019 except for clause 5.2.6			
Wareneingangsdatum: <i>Date of receipt:</i>	May 09, 2020	See Attachment: Photo documentation for details.		
Prüfmuster-Nr.: <i>Test sample No.:</i>	20200507			
Prüfzeitraum: <i>Testing period:</i>	May 09, 2020 to May 27, 2020			
Ort der Prüfung: <i>Place of testing:</i>	See page 3			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
May 29, 2020 Amanda Liu / Project Engineer <i>Amanda Liu</i>		May 29, 2020 Angela Chen / Department Manager <i>Angela Chen</i>		
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:				
<ul style="list-style-type: none"> - The test report consists of EN 14683 test report including this cover page (12 pages) and attachment: Photo documentation (5 pages). - The Biocompatibility (clause 5.2.6) is not evaluated in this test report. 				
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 P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
<p>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></p>				

EN 14683:2019+AC: 2019 Medical face masks — Requirements and test methods	
Report Reference No. :	60373798 001
Date of issue :	See cover page
Total number of pages :	See cover page
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	Leotec(Guangdong)Technology Co., Ltd
Address :	No.174, Wenzhou Road, Dongcheng Street, Dongguan City, Guangdong Province, 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 Mask
Trade Mark :	
Manufacturer	Same as the applicant
Model/Type reference :	W-002
Classification :	Type IIR

List of Attachments (including a total number of pages in each attachment):	
Attachment – Photo Documentation (5 pages)	
Summary of testing:	
Tests performed (name of test and test clause): Construction check according to: Clause 5.1.1 Materials and construction Clause 5.1.2 Design	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
Clause 5.2.2 Bacterial filtration efficiency (BFE) Clause 5.2.3 Breathability Clause 5.2.4 Splash resistance Clause 5.2.5 Microbial cleanliness (Bioburden)	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.

See attachment.

Testing
Date of receipt of test item(s): See cover page 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 ... : 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): Same as the applicant
General product information:
1, The tested medical mask classified as type IIR. 2, The Biocompatibility (clause 5.2.6) is not evaluated in this test report. 3, The test results are for reference only. Relevant certification may be needed if the mask is intended to be sold in Europe.

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 IIR	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.	Constructed with non woven fabric, melt blown fabric, nose clip and ear loop.	P
	The medical face mask shall not disintegrate, split or tear during intended use.		P
	In the selection of the filter and layer materials, attention shall be paid to cleanliness.		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.		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).	With nose clip	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.	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 mask	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.	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		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 1.	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).		N/A
5.2.4	Splash resistance		P
	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	P
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 1).	See appended table 5.2.5	P
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		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.	See attachment.	P
	The following information shall be supplied:		P
	a) number of this European Standard;		P

EN 14683:2019+AC:2019			
Clause	Requirement + Test	Result - Remark	Verdict
	b) type of mask (as indicated in Table 1).		P
	EN ISO 15223-1:2016 and EN 1041:2008+A1:2013 should be considered.		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 Specimen 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
2020050 7	1	169 × 155	63.6	28.3	1750	0	99.49	--
	2	171 × 155	63.6	28.3			99.54	--
	3	169 × 153	63.6	28.3			99.54	--
	4	170 × 154	63.6	28.3			99.54	--
	5	170 × 155	63.6	28.3			99.49	--
Supplementary information:								
1, Each specimen was conditioned at <u>21</u> °C and <u>85</u> % relative humidity for <u>4</u> h to bring them into equilibrium with atmosphere prior to testing.								
2, The side of the test specimen was facing towards the challenge aerosol: <u>the inside of the test specimen.</u>								

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	
20200 507	1-1	47.9	48.0	8.0	--	
	1-2	47.1		8.0	--	
	1-3	38.6		8.0	--	
	1-4	51.5		8.0	--	
	1-5	54.8		8.0	--	
	2-1	46.9	50.3	8.0	--	
	2-2	56.2		8.0	--	
	2-3	52.8		8.0	--	
	2-4	48.4		8.0	--	
	2-5	47.2		8.0	--	
	3-1	57.9	52.8	8.0	--	
	3-2	50.8		8.0	--	
	3-3	56.6		8.0	--	
	3-4	43.9		8.0	--	
	3-5	55.0		8.0	--	
	4-1	58.8	49.3	8.0	--	
	4-2	47.5		8.0	--	
	4-3	56.9		8.0	--	
	4-4	38.1		8.0	--	
	4-5	45.4		8.0	--	
5-1	55.0	49.4	8.0	--		
5-2	43.6		8.0	--		
5-3	59.9		8.0	--		
5-4	41.9		8.0	--		
5-5	46.4		8.0	--		

Supplementary information:

Each specimen was conditioned at 21 °C and 85 % relative humidity for 4 h to bring them into equilibrium with

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

atmosphere prior to testing.

5.2.4	TABLE: Splash resistance				P
Batch/ lot no.:	Test mask no.:	The material of tested mask	Test result (Pass/fail)	Remarks	
20200507	1	See clause 5.1.1	Pass	--	
	2		Pass	--	
	3		Pass	--	
	4		Pass	--	
	5		Pass	--	
	6		Pass	--	
	7		Pass	--	
	8		Pass	--	
	9		Pass	--	
	10		Pass	--	
	11		Pass	--	
	12		Pass	--	
	13		Pass	--	
	14		Pass	--	
	15		Pass	--	
	16		Pass	--	
	17		Pass	--	
	18		Pass	--	
	19		Pass	--	
	20		Pass	--	
	21		Pass	--	
	22		Pass	--	
	23		Pass	--	
	24		Pass	--	
	25		Pass	--	
	26		Pass	--	
	27		Pass	--	
	28		Pass	--	

EN 14683:2019+AC:2019				
Clause	Requirement + Test		Result - Remark	Verdict
	29		Pass	--
	30		Pass	--
	31		Pass	--
	32		Pass	--
Supplementary information: 1, Each specimen was conditioned at <u>21</u> °C and <u>85</u> % relative humidity for <u>4</u> h to bring them into equilibrium with atmosphere prior to testing. 2, The description of target area tested: <u>the centre of the specimen.</u> 3, Any technique used to enhance visual detection of synthetic blood: <u>cotton absorbent swab.</u> 4, The temperature and relative humidity for testing: <u>21</u> °C and <u>80</u> %. 5, Description of any pre-treatment techniques used: <u>N/A.</u>				

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	
20200507	1	4.4	5	--	
	2	4.0	7	--	
	3	3.9	5	--	
	4	3.7	8	--	
	5	3.6	11	--	
Supplementary information:					

End of EN 14683 test report

Product: Disposable Medical Mask

Type Designation: W-002



Figure 1 General view of packaging box and packaging bag
(The information shown above will be replaced by figure 2-7 in final packaging)



Figure 2 Top view of packaging box

Product: Disposable Medical Mask

Type Designation: W-002

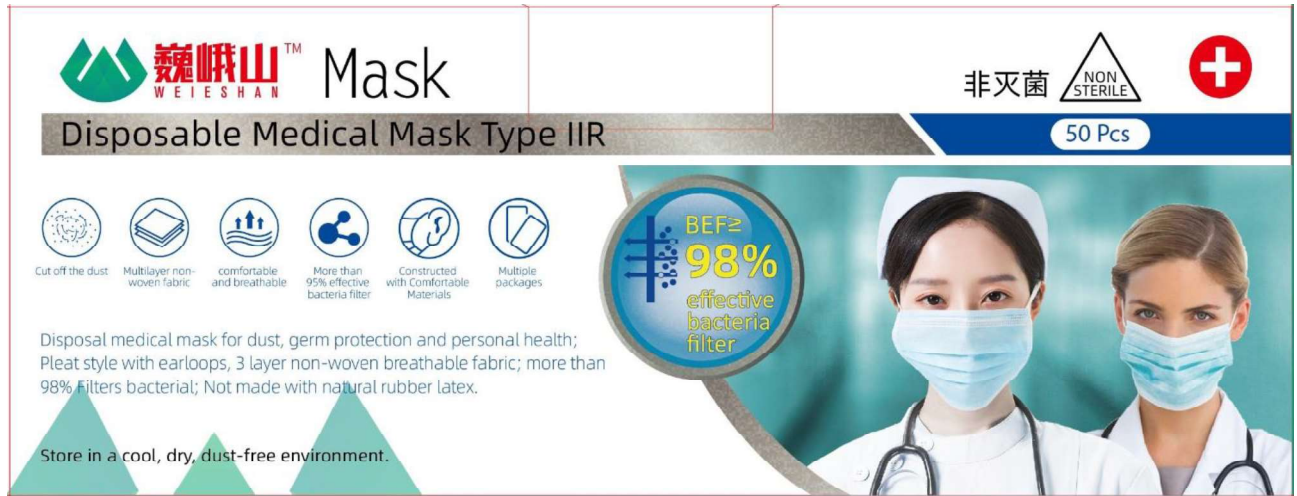


Figure 3 Front view of packaging box

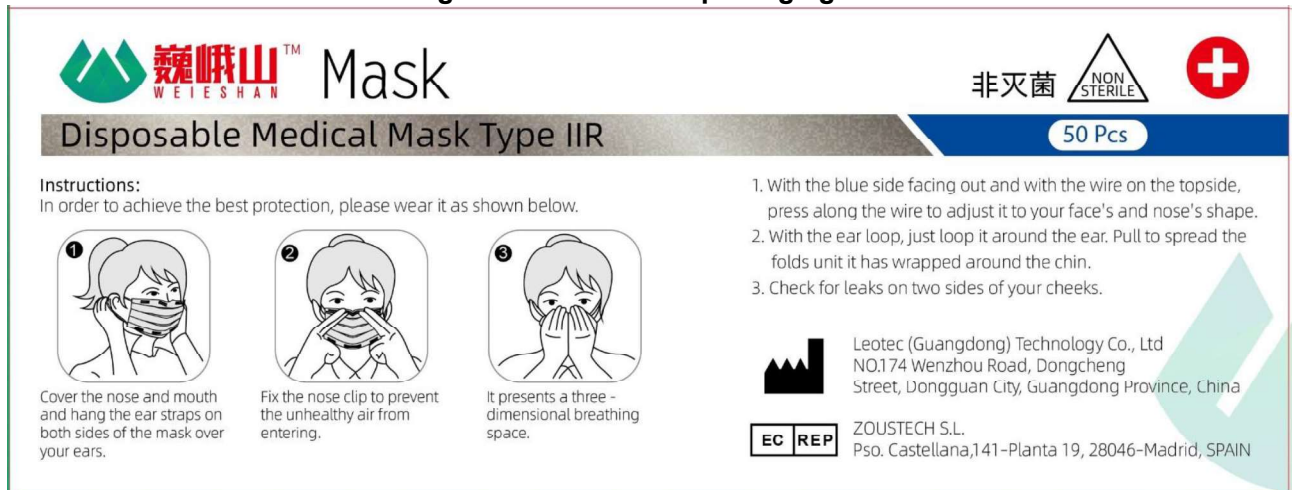


Figure 4 Back view of packaging box



Figure 5 Side view of package

Product: Disposable Medical Mask

Type Designation: W-002



Figure 6 Side view of package

Product: Disposable Medical Mask

Type Designation: W-002

 巍峨山™ WEIESHAN		INSPECTION CERTIFICATE
Item	: Disposable Medical Mask	
Model	: W-002	
Executive Standard	: YY/T 0969-2013/EN14683	
Specifications	: 175*95mm	
Product Performance	: BFE>98%	
Raw Material	: Nonwoven 65% / Melt blown 35%	
QTY	: 50 Pcs	
Product Batch	: 20200507	
Production Date	: 2020-05-07	
Expiry Date	: 2022-05-07	
Inspection	: Qualified	
Manufacturer: Leotec (Guangdong) Technology Co., Ltd Manufacturer Address: No.174, Wenzhou Road, Dongcheng Street, Dongguan City, Guangdong, China. Tel: (0086) 0769 - 2288 7156 Email: sales1@leotec.hk		



Figure 7 Inspection certificate view

Product: Disposable Medical Mask

Type Designation: W-002

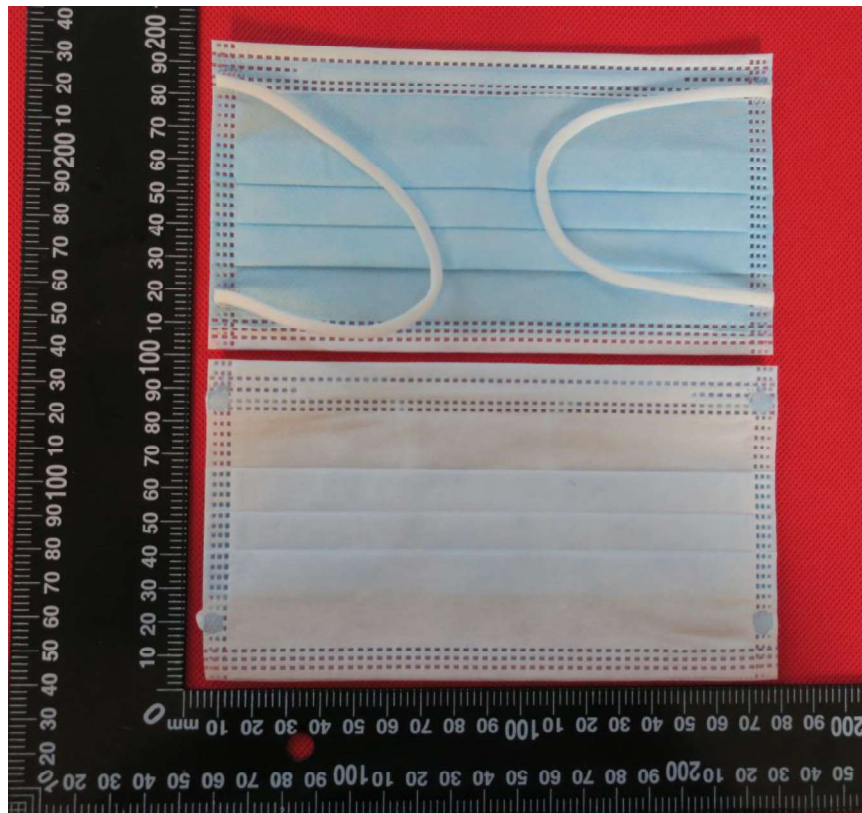


Figure 8 View of medical mask

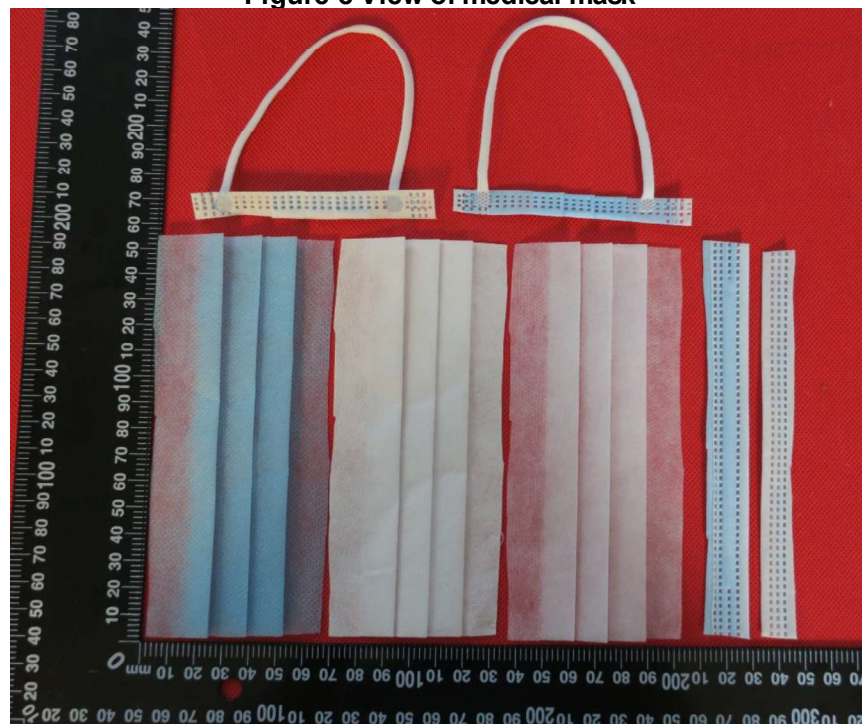


Figure 9 View of medical mask (3-ply)

END OF THE PHOTO DOCUMENTATION