



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

Testing Laboratory No. 1004

accredited by ČIA according to ČSN EN ISO/IEC 17025:2018



Testing laboratory * Calibration laboratory * Product certification body * Quality management systems certification body
Inspection body * Authorized body * Notified body

Number of pages: 6

Page :

1 ref. No. 462204056-01

ACCREDITED LABORATORY TEST REPORT ref. No. 462204056-01

Client:

Address:

Sample: Medical face mask, see page 2

Sample received on: August 28, 2020

Report elaborated by: Radek Matějka

Place and date of issue: Zlín, September 01, 2020



Ing. Jiří Samsonek, Ph.D.
Head of Accredited Testing Laboratory

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by Institut pro testování a certifikaci, a.s. Zlín, the Test Report may not be reproduced unless as a whole!



Description and identification of samples:

Table No. I - Sample description and identification

ITC's identification number	Sample identification by client	Description of submitted sample
462204056-01	FACE MASK WORKSHOP	Medical face mask, white/blue, see Fig. 1

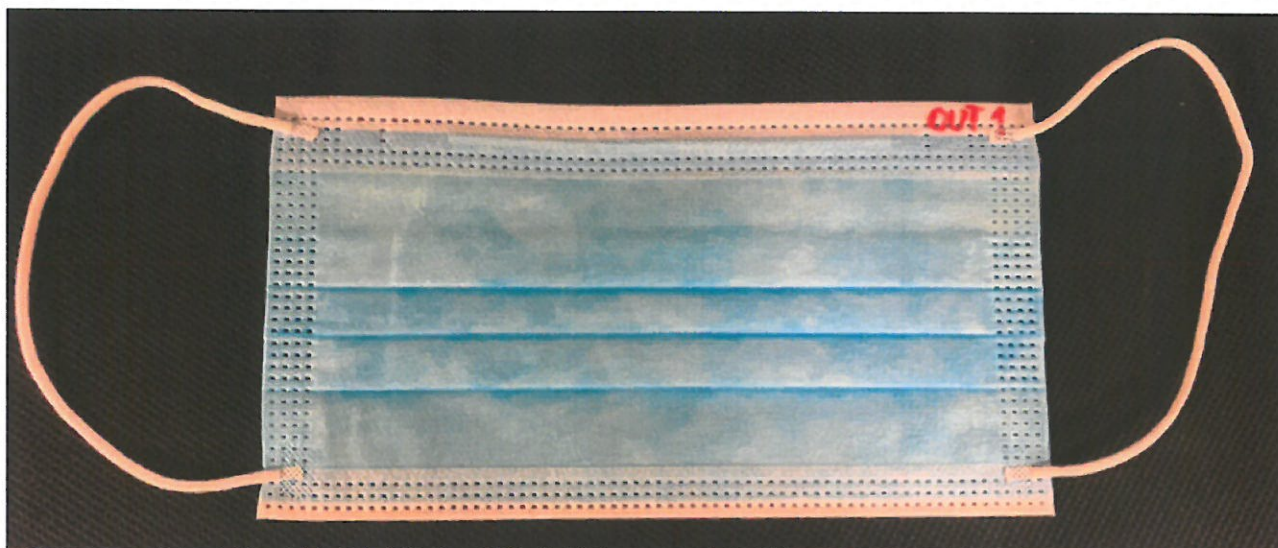


Fig. No.1 – Picture of samples no. 462204056/01

Sampling method used:

The test sample was collected and supplied to the laboratory by the client. The laboratory is not responsible for this way of sampling

Work requested:

Determination of selected physical-mechanical properties –Medical face mask testing

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by Institut pro testování a certifikaci, a.s. Zlín, the Test Report may not be reproduced unless as a whole!



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

Testing Laboratory No. 1004

accredited by ČIA according to ČSN EN ISO/IEC 17025:2018



Testing laboratory * Calibration laboratory * Product certification body * Quality management systems certification body
Inspection body * Authorized body * Notified body

Number of pages: 6

Page : 3 ref. No. 462204056-01

Testing method used:

1. Testing the properties of medical mask – Material, construction and design acc. Internal test procedure ITC No. P-20-25 (requirement ČSN EN 14683+AC, 5.1)
2. Testing the properties of medical mask – determination of breathability acc. ČSN EN 14683+AC, 5.2.3
3. Testing the properties of medical mask – determination of biocompatibility acc. SOP 1/3 and SOP 2/3 (Requirement ČSN EN 14683+AC, 5.2.6) – sub-delivery

Test conditions:

1. Samples conditioning (23±5)°C; (85±5)% R.h.; min 4 h
Face sizes S/M, L, XL
No. of tested specimens 3
2. No. of tested specimens 5
Samples conditioning (23±5)°C; (85±5)% R.h.; min 4 h
Air flow rate 8 l/min
Flow direction outer side to inner side
Diameter of tested area 25 mm (4,9 cm²)
No of measurements for spec. 5

The laboratory is not responsible for information received from customer, which could have influence on the validity of the results. Further information required by standards and not given in this Test Report are available at a request at the Laboratory.

Testing laboratory:

Test No. 1 and 2 Workplace No. 2, třída Tomáše Bati 5264, Svit premises, building No. 113,
760 01 Zlín, Czech Republic.

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by Institut pro testování a certifikaci, a.s. Zlín, the Test Report may not be reproduced unless as a whole!



Test result:

The test results are given in the following table:

Table No. II – Results of visual check – sample 462204056/01

Description of construction¹⁾	Rectangular shape Dimensions (172x95)mm Folded: yes Nose bridge: yes
Method of fixing the mask on the face¹⁾	2 elastic bands on the shorter sides of rectangle
Mask structure¹⁾	3 layers; fixed on edges acc. Fig.No.2

¹⁾ acc. P-20-25



Fig. No.2 – Picture of samples no. 462204056/01

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by Institut pro testování a certifikaci, a.s. Zlín, the Test Report may not be reproduced unless as a whole!



Table No. III – Results of visual check – sample 462204056/01

Testing person with face size ¹⁾ :	Visual and function evaluation after 5 application
M,S	Mask without defect
L	Mask without defect
XL	Mask without defect, non-comfortable

¹⁾ acc. P-20-25

Table No. IV – Results for practical application – sample 462204056/01

Testing person with face size ¹⁾ :	Evaluation of the test
M,S	Attaching the face mask: The mask holds firmly on head and face. Mask does not deform unnaturally under various movements of head, does not fall down to chin or does not move towards eyes. Mask tightness on face: The mask copies shape of face. When inhaling and exhaling, most of air passes through mask
L	Attaching the face mask: The mask holds firmly on head and face. Mask does not deform unnaturally under various movements of head, does not fall down to chin or does not move towards eyes. Mask tightness on face: The mask copies shape of face. When inhaling and exhaling, most of air passes through mask
XL	Attaching the face mask: The mask holds firmly on head and face. Mask does not deform unnaturally under various movements of head, does not fall down to chin or does not move towards eyes. Mask tightness on face: The mask copies shape of face. When inhaling and exhaling, most of air passes through mask

¹⁾ acc. P-20-25

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by Institut pro testování a certifikaci, a.s. Zlín, the Test Report may not be reproduced unless as a whole!



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

Testing Laboratory No. 1004

accredited by ČIA according to ČSN EN ISO/IEC 17025:2018



Testing laboratory * Calibration laboratory * Product certification body * Quality management systems certification body
Inspection body * Authorized body * Notified body

Number of pages: 6

Page :

6 ref. No. 462204056-01

Table No. V – Result for breathability – sample 462204056/01

Characteristics measured	Unit	Test result	Uncertainty ¹⁾
Differential pressure	Pa/cm ²	35,90	0,99

¹⁾ expanded uncertainty for coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95%

Comment on the results of the tests - /beyond the scope of accreditation:

Table No. VI – Summarization of the result – sample 462204056/01

Characteristics measured	Unit	Test result	Value required ¹⁾ (For type I)	Evaluation
Differential pressure	Pa/cm ²	35,90	< 40	Pass

¹⁾ Requirements of EN 14683:2019+AC:2019, for type I masks

Evaluation and comment on the results of the tests carried out by:

Ing. Radek Matějka

M.Sc. Roman Dlabaja, Ph.D.
Head of Laboratory of Physics

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by Institut pro testování a certifikaci, a.s. Zlín, the Test Report may not be reproduced unless as a whole!