

**MNA LABORATORIES
TEST REPORT**

Report No: M-2021-00087	Date: 10.02.2021	Page 1 of 3	Rev:
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Purpose of Analysis	: SPECIAL REQUEST	Brand	: ERA
Sample Type	: PROTECTIVE MASK	Model	: C200
Sample Send Org.	: BAŞARAN İŞ ELB. VE İŞ GÜV. EKİPM. SAN. TİC. LTD. ŞTİ.	Sampler	: CUSTOMER
Manufacturer Name	: BAŞARAN İŞ ELB. VE İŞ GÜV. EKİPM. SAN. TİC. LTD. ŞTİ.		
Analysis Date	: 18.01.2021		
Sample Quantity	: 100 pieces		
Other informations	:		

**Total Inward Leakage (%)
EN 149+ A1 Part 7.9.1**

	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As recieved)	7.0	7.2	7.8	6.3	7.8	7.2
Subject 2 (As recieved)	7.7	7.1	7.7	7.4	7.8	7.5
Subject 3 (As recieved)	7.8	7.8	7.9	5.1	8.1	7.3
Subject 4 (As recieved)	7.5	5.3	7.7	8.3	7.7	7.3
Subject 5 (As recieved)	6.2	5.3	7.9	6.9	8.0	6.9
Subject 6 (After temperature conditioning)	7.2	5.2	7.8	7.8	7.3	7.1
Subject 7 (After temperature conditioning)	7.5	7.8	7.5	8.0	7.5	7.7
Subject 8 (After temperature conditioning)	7.5	7.7	7.4	5.2	7.3	7.0
Subject 9 (After temperature conditioning)	7.6	7.4	7.7	5.0	7.5	7.0
Subject 10 (After temperature conditioning)	7.9	6.9	6.3	6.0	7.0	6.8

Subject facial dimensions

Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
1	133	132	132	65
2	125	144	116	67
3	126	135	124	75
4	123	133	134	74
5	117	135	122	73
6	122	142	133	66
7	113	132	114	75
8	135	123	123	65
9	122	135	133	74
10	135	142	125	83

**Carbondioxide content
EN 149+ A1 Part 7.12**

	Result (%)
Sample 1	0.78
Sample 2	0.67
Sample 3	0.83

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Penetration of filter material EN 149+ A1 Part 7.9.2	Sodium Chloride (%)	Paraffin Oil (%)
As recieved	4.1	4.6
As recieved	4.4	4.1
As recieved	3.7	4.5
After the simulated wearing treatment	4.2	4.7
After the simulated wearing treatment	4.5	5.3
After the simulated wearing treatment	3.5	4.6
Mechanical strength and temperature conditioning	4.9	5.7
Mechanical strength and temperature conditioning	5.5	5.6
Mechanical strength and temperature conditioning	5.1	5.5

Breathing Resistance (mbar) EN 149+ A1 Part 7.16	Inhalation 30L/min (mbar)	Inhalation 95L/min (mbar)
As recieved	0,5	1,5
As recieved	0,4	1,5
As recieved	0,5	1,6
After temperature conditioning	0,5	1,5
After temperature conditioning	0,4	1,6
After temperature conditioning	0,4	1,6
After the simulated wearing treatment	0,5	1,5
After the simulated wearing treatment	0,4	1,5
After the simulated wearing treatment	0,5	1,6

Breathing Resistance 160L/min (mbar) EN 149+ A1 Part 7.16	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
As recieved	2,1	2,1	2,1	2,1	2,2
As recieved	2,1	2,2	2,2	2,1	2,2
As recieved	2,2	2,2	2,2	2,2	2,2
After temperature conditioning	2,1	2,1	2,2	2,1	2,1
After temperature conditioning	2,1	2,1	2,2	2,2	2,2
After temperature conditioning	2,2	2,2	2,2	2,2	2,1
After the simulated wearing treatment	2,2	2,1	2,1	2,1	2,1
After the simulated wearing treatment	2,2	2,2	2,2	2,1	2,1
After the simulated wearing treatment	2,2	2,1	2,1	2,1	2,1



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Operating as an experimental laboratory, MNA Laboratories have been accredited by TURKAK with AB-1183-T and TS_EN_ISO / IEC_17025: 2017 standard. Turkish Accreditation Agency (TÜRKAK) signed a multilateral agreement with the European Accreditation Association (EA) on the recognition of test reports and a mutual recognition agreement with the International Laboratory Accreditation Association (ILAC).

* Analysis is under accreditation.

Note :

1. No part of this analysis report can be used alone or separately, and may not be partially copied or reproduced, used to third parties and as a means of advertising without the written permission of the laboratory.
2. Analysis results are valid for the above mentioned sample sent by MNA Laboratory company / institution / person. It may not represent the whole.
3. Unsigned and unsealed reports are invalid.
4. This analysis report cannot be used in judicial-administrative procedures and for advertising purposes.
5. Results are valid for the sample as received.
6. The decision rule is the rule that determines how measurement uncertainty is taken into account when specifying the PASS density to a specified specification. According to the TLM-052 Decision Rule Implementation instruction, the Decision Rule Implementation Method selected in agreement with CUSTOMER is clearly stated in the report.
7. Limit Values are determined by taking from analysis methods.
8. The laboratory is not responsible if the information provided by the CUSTOMER affects the validity of the results.
9. Test and / or measurement results, expanded measurement uncertainties (if any) and test methods are given in the following pages, which are the supplementary part of this certificate.
10. Water Repellency Determination Hydrostatic Pressure Determination T S ISO 811 (Hydrostatic Pressure Tester E / N: 53) Analysis, Seam Strength EN ISO 13965-2 (Strength Test Device E / N: 50) Analysis and resistance to liquid chemical permeation TS EN 659 -A1 Part 3.18 (Liquid Chemical Transfer Device E / N: 107) Analysis is carried out in the conditioning room and ISO 139 PART 3.2 conditions (23 ± 2 ° C temperature and 50 ± 4 % relative humidity) are applied for ambient conditions.
11. List of phthalates analyzed is below.

Di-iso-nonyl phthalate (DINP), CAS number: 28553-12-0 or 68515-48-0
Di- (2-ethylhexyl) phthalate (DEHP), CAS number: 117-81-7
Di-n-octyl phthalate (DNOP), CAS number: 117-84-0
Di-iso-decyl phthalate (DIDP), CAS number: 26761-40-0 or 68515-49-1
Butyl benzyl phthalate (BBP), CAS number: 85-68-7
Di-butyl phthalate (DBP), CAS number: 84-74-2

Selin GERGİN
Sampling and Reporting
Officer

Erhan ÜSTÜNEL
PPE Laboratory Responsible

Confirmed
10.02.2021
Volkan AKIN
Laboratory Manager