

**MNA LABORATORY
ANALYSIS REPORT**

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Purpose of Analysis	: Special request
Sample Send Org.	: ANKA PROMOSYON ÜRÜNLERİ VE MATBAA MALZEMELERİ SANAYİ TİCARET LTD. ŞTİ.
Address	: Fevzi Çakmak Mah. 10576 Sokak No:66/D
Sample Acceptance Date	: 2022-01-28 09:53:03
Analysis Date	: 2022-01-28 10:16:45
Sample Quantity	: 80 Pieces
Sample Description	: DOST MASK DM-33 FFP2
Other informations	: MODULE C2

Flammability

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Flammability	Flame not seen.	Max 5 s flame	EN 13274-4	PASS	-

Penetration Of Filter Material

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Penetration Of Filter Material	See below table.	FFP1≤20 FFP2≤6 FFP3≤1	EN 149+A1 Part 8.11, EN 13274-7	PASS	-

	Sodium Chloride (%)	Paraffin Oil (%)
As received	2,5	2,6
As received	2,2	2,6
As received	2,4	2,7
After the simulated wearing treatment	2,4	2,4
After the simulated wearing treatment	2,6	2,8
After the simulated wearing treatment	2,3	2,6
Mechanical strength and temperature conditioning (120 mg)	3,9	4,1
Mechanical strength and temperature conditioning (120 mg)	3,5	4,0
Mechanical strength and temperature conditioning (120 mg)	3,6	4,1

Carbon Dioxide Content Of The Inhalation Air

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Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Carbon Dioxide Content Of The Inhalation Air	See below table.	max 1	EN 149+A1 Part 8.7	PASS	-

	CO2 (%)
Sample 1	0,75
Sample 2	0,79
Sample 3	0,70

Breathing Resistance

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Breathing Resistance	See below table.	See below table.	EN 149+A1 Part 8.9	PASS	-

Clasification	30 L/min max pressure (mbar)	95 L/min max pressure (mbar)	160 L/min max pressure (mbar)
FFP1	0,6	2,1	3,0
FFP2	0,7	2,4	3,0
FFP3	1,0	3,0	3,0

Inhalation	30 L/min	95 L/min
As received	0,5	1,6
As received	0,5	1,7
As received	0,4	1,6
After temperature conditioning	0,4	1,6
After temperature conditioning	0,4	1,6
After temperature conditioning	0,5	1,7
After the simulated wearing treatment	0,5	1,7
After the simulated wearing treatment	0,4	1,6
After the simulated wearing treatment	0,5	1,7
After the flow conditioning	~	~
After the flow conditioning	~	~
After the flow conditioning	~	~

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Exhalation	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
As received	2,7	2,6	2,7	2,7	2,6
As received	2,6	2,7	2,6	2,6	2,6
As received	2,7	2,6	2,6	2,6	2,6
After temperature conditioning	2,6	2,7	2,7	2,7	2,7
After temperature conditioning	2,6	2,7	2,7	2,7	2,7
After temperature conditioning	2,6	2,6	2,6	2,6	2,6
After the simulated wearing treatment	2,7	2,6	2,6	2,6	2,6
After the simulated wearing treatment	2,6	2,7	2,7	2,7	2,7
After the simulated wearing treatment	2,7	2,6	2,6	2,6	2,6
After the flow conditioning	~	~	~	~	~
After the flow conditioning	~	~	~	~	~
After the flow conditioning	~	~	~	~	~

Total Inward Leakage

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Total Inward Leakage	See below table.	See below table.	EN 149+A1 Part 8.5	PASS	-

	At least 46 out of the 50 individual exercise result shall be not greater than	At least 8 out of the 10 individual wearer arithmetic means shall be not greater than
FFP1	<25	<22
FFP2	<11	<8
FFP3	<5	<2

	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As received)	4,4	5,5	5,4	6,3	5,4	5,4

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Subject 2 (As received)	4,7	5,0	6,0	4,2	4,0	4,8	
Subject 3 (As received)	5,2	4,7	5,8	2,6	4,7	4,6	
Subject 4 (As received)	6,3	6,7	4,6	4,5	6,3	5,7	
Subject 5 (As received)	6,5	3,7	5,8	5,6	4,0	5,1	
Subject 6 (After temperature conditioning)	5,9	6,3	3,5	3,7	5,7	5,0	
Subject 7 (After temperature conditioning)	6,1	6,9	5,7	5,7	6,0	6,1	
Subject 8 (After temperature conditioning)	5,4	5,7	6,9	7,5	4,7	6,0	
Subject 9 (After temperature conditioning)	5,3	5,5	5,4	5,4	5,3	5,4	
Subject 10 (After temperature conditioning)	6,1	5,3	5,1	6,1	3,4	5,2	

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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 $50 \pm 4\%$ relative humidity) are applied for ambient conditions.

Selin Gergin

Sampling and Reporting Officer

2022-02-01 16:30:46

Erhan Üstünel

PPE Laboratory Responsible

2022-02-01 16:41:30

VOLKAN AKIN

Laboratory Manager

2022-02-02 15:29:00

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