

Report No : 80111439

Report Date : 16.11.2022

Application No :80111439

1. COMPANY INFORMATION:

LindenCare GmbH

Head Office: Pempelforter Str. 50, 40211 Düsseldorf Germany

Factory: Beşyol Mahallesi Karadeniz Sokak Polaris Tekstil Blok No 4 İç kapı no 4 Küçükçekmece/ İstanbul

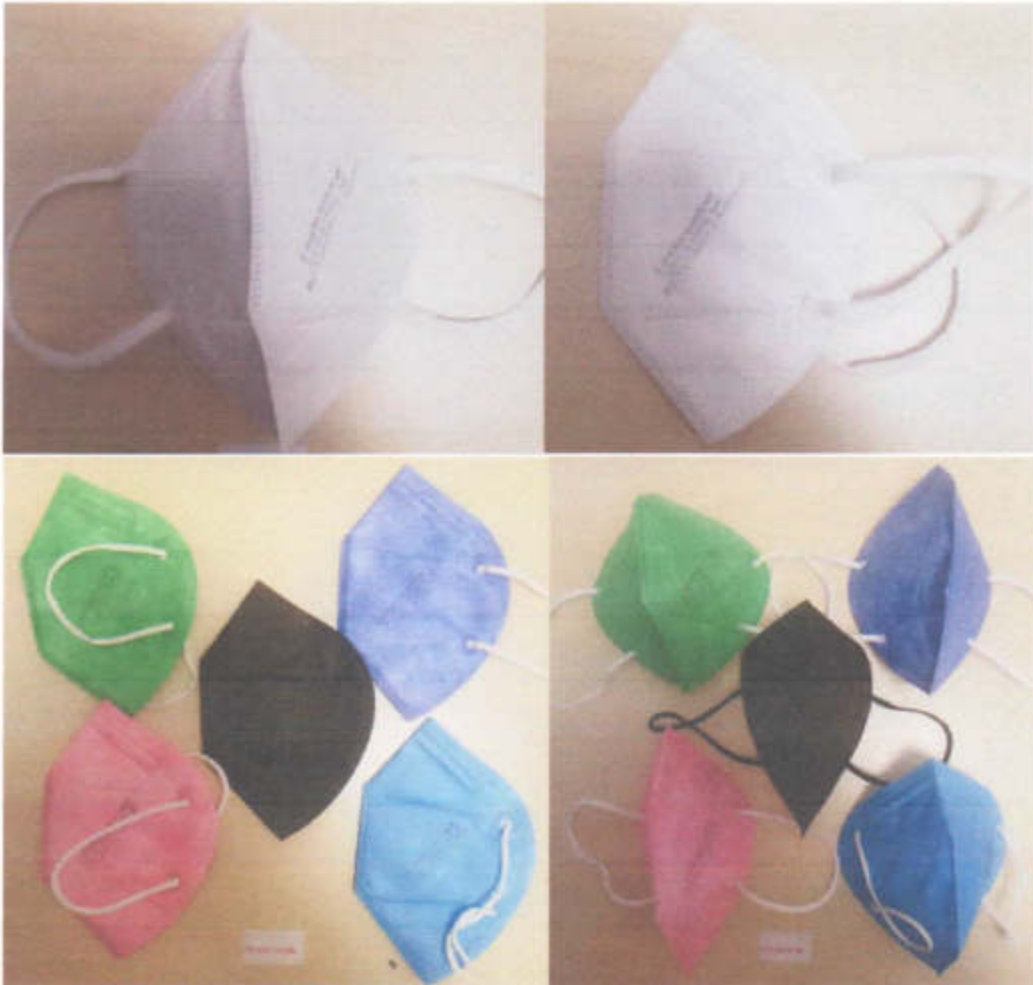
2. PPE INFORMATION:

Disposable and non-sterile half mask made of particulate protection filter material.

3. PPE TYPE IDENTIFICATION

EN 149:2001+A1:2009 Respiratory protective devices – Filtering half masks to protect against particles - Requirements, testing, marking

4. PPE PICTURES



LINDENPARTNER LP1-5

5. PPE DIMENSIONS:

LINDENPARTNER LP1-5 model has been found to be produced using standard size.

6. PPE PRODUCT MATERIAL INFORMATION:

The product is made of elastic strap, nonwoven fabric on the outer and inner layers and filter material on the middle layer.

7. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

- A visual inspection was made according to EN 149:2001 +A1:2009 for ergonomics.
- Protection levels and degrees are defined by the manufacturer.
- Suitable construction materials were determined by visual inspection according to EN 149:2001 +A1:2009.

8. ANALYSIS EVALUATION AND MARKING:

EN 149:2001 +A1:2009

| TESTS | PARAMETER | PERFORMANCE LEVELS | | | RESULTS | PERFORMANCE LEVELS | EVALUATION |
|---------------------------------------|---|--------------------|------|------|----------------|--------------------|----------------|
| | | FFP1 | FFP2 | FFP3 | | | |
| Part 7.3 Visual inspection | Shall also the marking and the information supplied by the manufacturer | | | | Appropriate | - | PASS |
| Banned Azo Dyes | < 30 mg/kg | | | | Not applicable | - | Not applicable |
| Part 7.4 Packaging | Particle filtering half mask shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use. | | | | Appropriate | - | PASS |
| Part 7.5 Material | When conditioned in accordance 8.3.1 & 8.3.2 the particle filter half mask shall not collapse. | | | | Appropriate | - | PASS |
| Part 7.6 Cleaning and disinfecting | After cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class. | | | | Not applicable | - | Not applicable |
| Part 7.7 Practical performance | No negative comments should be made by the test subject regarding any of the criteria evaluated. | | | | Appropriate | - | PASS |
| Part 7.8 Finish of parts | Parts of the device likely to come into contact with the wearer shall have no sharp edge or burrs. | | | | Appropriate | - | PASS |

| TESTS | PARAMETER | PERFORMANCE LEVELS | | | RESULTS | PERFORMANCE LEVELS | EVALUATION |
|------------------------------------|---|--------------------|------|------|---------------------|--------------------|------------|
| | | FFP1 | FFP2 | FFP3 | | | |
| Part 7.9.1 Total inward leakage | At least 46 out of the 50 individual exercise result | ≤25 | ≤11 | ≤5 | See the table below | FFP2 | PASS |
| | At least 8 out of the 10 individual wearer arithmetic means | ≤22 | ≤8 | ≤2 | See the table below | FFP2 | PASS |

Total Inward Leakage (%)

| | Exercise 1 | Exercise 2 | Exercise 3 | Exercise 4 | Exercise 5 | Average |
|---|------------|------------|------------|------------|------------|---------|
| Subject 1 (As received) | 4.7 | 5.0 | 4.9 | 5.5 | 4.8 | 5.0 |
| Subject 2 (As received) | 5.5 | 5.4 | 4.8 | 4.9 | 5.6 | 5.2 |
| Subject 3 (As received) | 5.0 | 5.4 | 5.0 | 5.0 | 5.0 | 5.1 |
| Subject 4 (As received) | 4.9 | 5.0 | 4.9 | 5.5 | 5.6 | 5.2 |
| Subject 5 (As received) | 5.5 | 4.8 | 5.0 | 5.1 | 5.0 | 5.1 |
| Subject 6 (After temperature conditioning) | 5.0 | 5.0 | 4.9 | 5.5 | 4.9 | 5.1 |
| Subject 7 (After temperature conditioning) | 5.6 | 5.1 | 5.2 | 6.1 | 6.3 | 5.7 |
| Subject 8 (After temperature conditioning) | 5.6 | 5.3 | 5.6 | 4.8 | 4.8 | 5.2 |
| Subject 9 (After temperature conditioning) | 5.0 | 4.9 | 5.0 | 4.7 | 5.0 | 4.9 |
| Subject 10 (After temperature conditioning) | 5.1 | 5.0 | 4.8 | 4.9 | 4.9 | 4.9 |

COLOR
Total Inward Leakage (%)

| | Exercise 1 | Exercise 2 | Exercise 3 | Exercise 4 | Exercise 5 | Average |
|---|------------|------------|------------|------------|------------|---------|
| Subject 1 (As recieved) | 7.9 | 6.9 | 6.1 | 8.1 | 6.4 | 7.1 |
| Subject 2 (As recieved) | 7.6 | 5.2 | 5.7 | 6.4 | 6.3 | 6.2 |
| Subject 3 (As recieved) | 7.3 | 8.5 | 5.8 | 8.1 | 8.5 | 7.6 |
| Subject 4 (As recieved) | 7.2 | 7.9 | 7.7 | 8.2 | 8.5 | 7.9 |
| Subject 5 (As recieved) | 7.0 | 8.2 | 7.6 | 5.3 | 7.1 | 7.0 |
| Subject 6 (After temperature conditioning) | 7.3 | 7.6 | 5.8 | 6.4 | 8.6 | 7.1 |
| Subject 7 (After temperature conditioning) | 7.3 | 7.5 | 7.2 | 6.2 | 7.1 | 7.1 |
| Subject 8 (After temperature conditioning) | 7.4 | 8.5 | 7.0 | 7.1 | 7.3 | 7.5 |
| Subject 9 (After temperature conditioning) | 6.0 | 8.5 | 8.5 | 8.1 | 8.7 | 8.0 |
| Subject 10 (After temperature conditioning) | 7.9 | 7.7 | 7.9 | 7.2 | 6.2 | 7.4 |

Subject facial dimensions

| Subject | Face Length (mm) | Face Width (mm) | Face Depth (mm) | Mouth Width (mm) |
|---------|------------------|-----------------|-----------------|------------------|
| 1 | 120 | 145 | 105 | 61 |
| 2 | 128 | 155 | 112 | 68 |
| 3 | 110 | 128 | 105 | 55 |
| 4 | 123 | 140 | 133 | 57 |
| 5 | 116 | 128 | 99 | 58 |
| 6 | 120 | 130 | 91 | 56 |
| 7 | 138 | 151 | 119 | 65 |
| 8 | 110 | 130 | 96 | 55 |

| | | | | |
|----|-----|-----|-----|----|
| 9 | 120 | 131 | 85 | 58 |
| 10 | 135 | 142 | 125 | 83 |

| TESTS | PARAMETER | PERFORMANCE LEVELS | | | RESULTS | PERFORMANCE LEVELS | EVALUATION |
|--|-------------------------------------|--------------------|------|------|---------------------|--------------------|------------|
| | | FFP1 | FFP2 | FFP3 | | | |
| Part 7.9.2 Penetration of filter material | Sodium chloride, 95 L/min %, max | % 20 | % 6 | % 1 | See the table below | FFP2 | PASS |
| | Paraffin oil, 95 L/min %, max | % 20 | % 6 | % 1 | See the table below | FFP2 | PASS |

Color

| Penetration of filter material | Sodium Chloride (%) | Paraffin Oil (%) |
|---|---------------------|------------------|
| As received | 3.5 | 3.7 |
| As received | 3.6 | 3.7 |
| As received | 3.5 | 3.6 |
| After the simulated wearing treatment | 3.4 | 3.9 |
| After the simulated wearing treatment | 3.8 | 3.7 |
| After the simulated wearing treatment | 3.6 | 3.8 |
| Mechanical strength and temperature conditioning (120 mg) | 5.2 | 5.5 |
| Mechanical strength and temperature conditioning (120 mg) | 5.3 | 5.4 |
| Mechanical strength and temperature conditioning (120 mg) | 5.4 | 5.6 |

| Penetration of filter material | Sodium Chloride (%) | Paraffin Oil (%) |
|--|---------------------|------------------|
| As recieved | 3.0 | 3.0 |
| As recieved | 3.7 | 3.5 |
| As recieved | 3.9 | 3.4 |
| After the simulated wearing treatment | 3.7 | 3.3 |
| After the simulated wearing treatment | 3.4 | 3.4 |
| After the simulated wearing treatment | 3.9 | 3.3 |
| Mechanical strength and temperature conditioning | 3.1 | 3.5 |
| Mechanical strength and temperature conditioning | 3.6 | 3.3 |
| Mechanical strength and temperature conditioning | 3.7 | 3.5 |

| TESTS | PARAMETER | PERFORMANCE LEVELS | | | RESULTS | PERFORMANCE LEVELS | EVALUATION |
|--|---|--------------------|------|------|---|--------------------|------------|
| | | FFP1 | FFP2 | FFP3 | | | |
| Part 7.10 Compatibility with skin | Materials shall not be known to be likely to cause irritation or any other adverse effect to health | | | | Appropriate | - | PASS |
| Part 7.11 Flammibility | Mask shall not burn or not to continue to burn for more than 5 s | | | | Flame not seen | - | PASS |
| Part 7.12 Carbondioxide content of the inhalation air | Shall not exceed an average of % 1 | | | | 0,71 0,73 0,76 Color 0,60 0,67 | - | PASS |

| | | | | |
|----------------------------------|---|----------------|---|----------------|
| | | 0,63 | | |
| Part 7.13 Head harness | It can be donned and removed easily | Appropriate | - | PASS |
| Part 7.14 Field of vision | The field of vision shall acceptable in practical performance test. | Appropriate | - | PASS |
| Part 7.15 Exhalation valve(s) | It shall withstand axially a tensile force of 10 N apply for 10 s. If fitted, shall continue to operate correctly after a continuous exhalation flow of 300 L/min over a period of 30 s. | Not applicable | - | Not applicable |

| TESTS | PARAMETER | PERFORMANCE LEVELS | | | RESULTS | PERFORMANCE LEVELS | EVALUATION |
|-----------------------------------|---------------------|--------------------|----------|----------|---------------------|--------------------|------------|
| | | FFP1 | FFP2 | FFP3 | | | |
| Part 7.16 Breathing Resistance | Inhalation 30L/min | 0,6 mbar | 0,7 mbar | 1,0 mbar | See the table below | FFP2 | PASS |
| | Inhalation 95L/min | 2,1 mbar | 2,4 mbar | 3,0 mbar | See the table below | FFP2 | PASS |
| | Exhalation 160L/min | 3,0 mbar | 3,0 mbar | 3,0 mbar | See the table below | FFP2 | PASS |

| Breathing Resistance (mbar) | Inhalation 30L/min | Inhalation 95L/min |
|---------------------------------------|--------------------|--------------------|
| As received | 0.4 | 0.9 |
| As received | 0.4 | 0.8 |
| As received | 0.3 | 0.8 |
| After temperature conditioning | 0.3 | 0.8 |
| After temperature conditioning | 0.4 | 0.9 |
| After temperature conditioning | 0.3 | 0.8 |
| After the simulated wearing treatment | 0.3 | 0.9 |
| After the simulated wearing treatment | 0.3 | 0.8 |
| After the simulated wearing treatment | 0.4 | 0.9 |

| Breathing Resistance 160L/min (mbar) | Facing directly ahead | Facing vertically upwards | Facing vertically downwards | Lying on the left side | Lying on the right side |
|---------------------------------------|-----------------------|---------------------------|-----------------------------|------------------------|-------------------------|
| As received | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| As received | 2,2 | 2,1 | 2,1 | 2,1 | 2,1 |
| As received | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| After temperature conditioning | 2,2 | 2,1 | 2,2 | 2,1 | 2,1 |
| After temperature conditioning | 2,2 | 2,1 | 2,1 | 2,2 | 2,1 |
| After temperature conditioning | 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 | 2,1 | 2,1 | 2,2 | 2,2 | 2,2 |
| After the simulated wearing treatment | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |

Color

| Breathing Resistance 160L/min (mbar) | 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 | 2,0 | 2,0 |

| | | | | | |
|---------------------------------------|-----|-----|-----|-----|-----|
| As recieved | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| As recieved | 2,0 | 2,1 | 2,1 | 2,1 | 2,1 |
| After temperature conditioning | 2,1 | 2,0 | 2,1 | 2,1 | 2,1 |
| After temperature conditioning | 2,1 | 2,0 | 2,1 | 2,1 | 2,1 |
| After temperature conditioning | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| After the simulated wearing treatment | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| After the simulated wearing treatment | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| After the simulated wearing treatment | 2,1 | 2,1 | 2,0 | 2,0 | 2,1 |

Color

| Breathing Resistance 160L/min (mbar) | 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 | 2,0 | 2,0 |
| As recieved | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| As recieved | 2,0 | 2,1 | 2,1 | 2,1 | 2,1 |
| After temperature conditioning | 2,1 | 2,0 | 2,1 | 2,1 | 2,1 |
| After temperature conditioning | 2,1 | 2,0 | 2,1 | 2,1 | 2,1 |
| After temperature conditioning | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| After the simulated wearing treatment | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| After the simulated wearing treatment | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| After the simulated wearing treatment | 2,1 | 2,1 | 2,0 | 2,0 | 2,1 |

| TESTS | PARAMETER | PERFORMANCE LEVELS | | | RESULTS | PERFORMANCE LEVELS | EVALUATION |
|-------------------------------|---|--------------------|--------|--------|----------------|--------------------|----------------|
| | | FFP1 | FFP2 | FFP3 | | | |
| Part 7.17 Clogging | After clogging the inhalation resistances shall not exceed. (valved) | 4 mbar | 5 mbar | 7 mbar | Not applicable | - | Not applicable |
| | The exhalation resistance shall not exceed 3 mbar at 160 L/ min continuous flow. (valved) | | | | Not applicable | - | Not applicable |
| | After clogging the inhalation and exhalation resistances shall not exceed. (valveless) | 3 mbar | 4 mbar | 5 mbar | Not applicable | - | Not applicable |
| Part 7.18 Demountable part | All demountable parts (if fitted) shall be readily connected and secured were possible by hand. | | | | Not applicable | - | Not applicable |
| Part 9 Marking | The packaging information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent. | | | | Appropriate | - | PASS |

9. DECISION PROPOSAL

Analysis and examinations LINDENPARTNER LP1-5model coded personal protective equipment; Respiratory Protective Devices EN 149:2001 +A1:2009- Filtered Half Masks for Protection Against Particles - Properties, Experiments and Marking standards are evaluated. It is recommended to be certified at the performance levels specified as a result of technical evaluations.

10. ATTACHMENTS

- Basic Health Safety Requirements
- Risk Assessment
- Test Report (M-2020-00624, m-2021-00274)
- User Instruction

Reason for revision: Manufacturer information has been revised.

CONTROLLER : VOLKAN AKIN

SIGNATURE :

DATE : 16.11.2022



MNA LABORATORIES TEST REPORT

| | | | |
|----------------------------|---|----------------|-----------------------|
| Report No: M-2021-00274 | Date: 12.03.2021 | Page 1 of 4 | Rev: |
| Purpose of Analysis | : SPECIAL REQUEST | Brand | : LINDENPARTNER |
| Sample Type | : PROTECTIVE MASK | Model | : LINDENPARTNER LP1-5 |
| Sample Send Org. | : LindenCare GmbH | Sampler | : CUSTOMER |
| Manufacturer Name | : LindenCare GmbH | | |
| Analysis Date | : 11.02.2021 | | |
| Sample Quantity | : 80 pieces | | |
| Other informations | : MODULE C2 / Blue+Navy Blue+Green+Black+Pink | | |

| TESTS | LIMIT | RESULTS |
|--|--|-----------------|
| EN ISO 14362-1 / EN ISO 17234-1 Banned Azo Dyes | < 30 mg/kg | < 5 mg/kg |
| EN 149+ A1 Part 7.9.1 Total inward leakage | At least 46 out of the 50 individual exercise result: FFP1<25 FFP2<11 FFP3<5 At least 8 out of the 10 individual wearer arithmetic means: FFP1<22 FFP2<8 FFP3<2 | See below table |

| Total Inward Leakage (%) EN 149+ A1 Part 7.9.1 | | | | | | |
|---|------------|------------|------------|------------|------------|---------|
| | Exercise 1 | Exercise 2 | Exercise 3 | Exercise 4 | Exercise 5 | Average |
| Subject 1 (As received) | 7.9 | 6.9 | 6.1 | 8.1 | 6.4 | 7.1 |
| Subject 2 (As received) | 7.6 | 5.2 | 5.7 | 6.4 | 6.3 | 6.2 |
| Subject 3 (As received) | 7.3 | 8.5 | 5.8 | 8.1 | 8.5 | 7.6 |
| Subject 4 (As received) | 7.2 | 7.9 | 7.7 | 8.2 | 8.5 | 7.9 |
| Subject 5 (As received) | 7.0 | 8.2 | 7.6 | 5.3 | 7.1 | 7.0 |
| Subject 6 (After temperature conditioning) | 7.3 | 7.6 | 5.8 | 6.4 | 8.6 | 7.1 |
| Subject 7 (After temperature conditioning) | 7.3 | 7.5 | 7.2 | 6.2 | 7.1 | 7.1 |
| Subject 8 (After temperature conditioning) | 7.4 | 8.5 | 7.0 | 7.1 | 7.3 | 7.5 |
| Subject 9 (After temperature conditioning) | 6.0 | 8.5 | 8.5 | 8.1 | 8.7 | 8.0 |
| Subject 10 (After temperature conditioning) | 7.9 | 7.7 | 7.9 | 7.2 | 6.2 | 7.4 |

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 |

MNA LABORATORIES TEST REPORT

| | | | |
|----------------------------|---|----------------|-----------------------|
| Report No: M-2021-00274 | Date: 12.03.2021 | Page 2 of 4 | Rev: |
| Purpose of Analysis | : SPECIAL REQUEST | Brand | : LINDENPARTNER |
| Sample Type | : PROTECTIVE MASK | Model | : LINDENPARTNER LP1-5 |
| Sample Send Org. | : LindenCare GmbH | Sampler | : CUSTOMER |
| Manufacturer Name | : LindenCare GmbH | | |
| Analysis Date | : 11.02.2021 | | |
| Sample Quantity | : 80 pieces | | |
| Other informations | : MODULE C2 / Blue+Navy Blue+Green+Black+Pink | | |

| TESTS | LIMIT | RESULTS |
|---|---|-----------------|
| EN 149+ A1 Part 7.9.2 Penetration of filter material | Sodium chloride, 95 L/min% FFP1≤20 FFP2≤6 FFP3≤1 Paraffin oil, 95 L/min% FFP1≤20 FFP2≤6 FFP3≤1 | See below table |

| Penetration of filter material EN 149+ A1 Part 7.9.2 | Sodium Chloride (%) | Paraffin Oil (%) |
|---|---------------------|------------------|
| As received | 3.5 | 3.7 |
| As received | 3.6 | 3.7 |
| As received | 3.5 | 3.6 |
| After the simulated wearing treatment | 3.4 | 3.9 |
| After the simulated wearing treatment | 3.8 | 3.7 |
| After the simulated wearing treatment | 3.6 | 3.8 |
| Mechanical strength and temperature conditioning (120 mg) | 5.2 | 5.5 |
| Mechanical strength and temperature conditioning (120 mg) | 5.3 | 5.4 |
| Mechanical strength and temperature conditioning (120 mg) | 5.4 | 5.6 |

| TESTS | LIMIT | RESULTS |
|---|--|----------------------|
| EN 149+ A1 Part 7.11 Flammability | Mask shall not burn or not to continue to burn for more than 5 s | Flame not seen |
| EN 149+ A1 Part 7.12 Carbondioxide content of the inhalation air | Shall not exceed an average of % 1 | 0,71 0,73 0,76 |
| EN 149+ A1 Part 7.16 Breathing Resistance | Inhalation 30L/min FFP1≤0,6mbar FFP2≤0,7mbar FFP3≤1,0mbar Inhalation 95L/min FFP1≤2,1mbar FFP2≤2,4mbar FFP3≤3,0mbar Exhalation 160L/min FFP1≤3,0mbar FFP2≤3,0mbar FFP3≤3,0mbar | See below table |

| EN 149+ A1 Part 7.16 Breathing Resistance (mbar) | Inhalation 30L/min (mbar) | Inhalation 95L/min (mbar) |
|---|---------------------------|---------------------------|
| As received | 0,5 | 1,9 |
| As received | 0,5 | 1,9 |
| As received | 0,6 | 1,9 |
| After temperature conditioning | 0,6 | 1,9 |
| After temperature conditioning | 0,5 | 1,8 |
| After temperature conditioning | 0,5 | 1,8 |
| After the simulated wearing treatment | 0,5 | 1,9 |
| After the simulated wearing treatment | 0,5 | 1,8 |
| After the simulated wearing treatment | 0,6 | 1,8 |
| After the flow conditioning | - | - |
| After the flow conditioning | - | - |
| After the flow conditioning | - | - |



**MNA LABORATORIES
TEST REPORT**

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|-------------------------|------------------|-------------|------|
| Report No: M-2021-00274 | Date: 12.03.2021 | Page 3 of 4 | Rev: |
|-------------------------|------------------|-------------|------|

| | | | |
|----------------------------|---|----------------|-----------------------|
| Purpose of Analysis | : SPECIAL REQUEST | Brand | : LINDENPARTNER |
| Sample Type | : PROTECTIVE MASK | Model | : LINDENPARTNER LP1-5 |
| Sample Send Org. | : LindenCare GmbH | Sampler | : CUSTOMER |
| Manufacturer Name | : LindenCare GmbH | | |
| Analysis Date | : 11.02.2021 | | |
| Sample Quantity | : 80 pieces | | |
| Other informations | : MODULE C2 / Blue+Navy Blue+Green+Black+Pink | | |

| Breathing Resistance 160L/min (mbar) EN 149+ A1 Part 7.16 | Facing directly ahead | Facing vertically upwards | Facing vertically downward s | Lying on the left side | Lying on the right side |
|--|-----------------------------|---------------------------------|---------------------------------------|------------------------------|-------------------------------|
| As received | 2,1 | 2,1 | 2,1 | 2,0 | 2,0 |
| As received | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| As received | 2,0 | 2,1 | 2,1 | 2,1 | 2,1 |
| After temperature conditioning | 2,1 | 2,0 | 2,1 | 2,1 | 2,1 |
| After temperature conditioning | 2,1 | 2,0 | 2,1 | 2,1 | 2,1 |
| After temperature conditioning | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| After the simulated wearing treatment | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| After the simulated wearing treatment | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| After the simulated wearing treatment | 2,1 | 2,1 | 2,0 | 2,0 | 2,1 |
| After the flow conditioning | - | - | - | - | - |
| After the flow conditioning | - | - | - | - | - |
| After the flow conditioning | - | - | - | - | - |



**MNA LABORATORIES
TEST REPORT**

| | | | |
|-------------------------|---|-------------|-----------------------|
| Report No: M-2021-00274 | Date: 12.03.2021 | Page 4 of 4 | Rev: |
| Purpose of Analysis | : SPECIAL REQUEST | Brand | : LINDENPARTNER |
| Sample Type | : PROTECTIVE MASK | Model | : LINDENPARTNER LP1-5 |
| Sample Send Org. | : LindenCare GmbH | Sampler | : CUSTOMER |
| Manufacturer Name | : LindenCare GmbH | | |
| Analysis Date | : 11.02.2021 | | |
| Sample Quantity | : 80 pieces | | |
| Other informations | : MODULE C2 / Blue+Navy Blue+Green+Black+Pink | | |

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 TS 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
12.03.2021
Volkan AKIN
Laboratory Manager

**MNA LABORATORIES
TEST REPORT**

| | | | |
|----------------------------|-------------------|----------------|-----------------|
| Report No: M-2020-00624 | Date: 10.12.2020 | Page 1 of 4 | Rev: |
| Purpose of Analysis | : SPECIAL REQUEST | Brand | : |
| Sample Type | : PROTECTIVE MASK | Model | : LP1-5 FFP2 NR |
| Sample Send Org. | : LINDENCARE GMBH | Sampler | : CUSTOMER |
| Manufacturer Name | : LINDENCARE GMBH | | |
| Analysis Date | : 07.12.2020 | | |
| Sample Quantity | : 100 pieces | | |
| Other informations | : | | |

| TESTS | LIMIT | RESULTS |
|---|--|-----------------|
| EN 149+ A1 Part 7.9.1 Total inward leakage | At least 46 out of the 50 individual exercise result: FFP1<25 FFP2<11 FFP3<5 At least 8 out of the 10 individual wearer arithmetic means: FFP1<22 FFP2<8 FFP3<2 | See below table |

| Total Inward Leakage (%) EN 149+ A1 Part 7.9.1 | | | | | | |
|---|------------|------------|------------|------------|------------|---------|
| | Exercise 1 | Exercise 2 | Exercise 3 | Exercise 4 | Exercise 5 | Average |
| Subject 1 (As received) | 4.7 | 5.0 | 4.9 | 5.5 | 4.8 | 5.0 |
| Subject 2 (As received) | 5.5 | 5.4 | 4.8 | 4.9 | 5.6 | 5.2 |
| Subject 3 (As received) | 5.0 | 5.4 | 5.0 | 5.0 | 5.0 | 5.1 |
| Subject 4 (As received) | 4.9 | 5.0 | 4.9 | 5.5 | 5.6 | 5.2 |
| Subject 5 (As received) | 5.5 | 4.8 | 5.0 | 5.1 | 5.0 | 5.1 |
| Subject 6 (After temperature conditioning) | 5.0 | 5.0 | 4.9 | 5.5 | 4.9 | 5.1 |
| Subject 7 (After temperature conditioning) | 5.6 | 5.1 | 5.2 | 6.1 | 6.3 | 5.7 |
| Subject 8 (After temperature conditioning) | 5.6 | 5.3 | 5.6 | 4.8 | 4.8 | 5.2 |
| Subject 9 (After temperature conditioning) | 5.0 | 4.9 | 5.0 | 4.7 | 5.0 | 4.9 |
| Subject 10 (After temperature conditioning) | 5.1 | 5.0 | 4.8 | 4.9 | 4.9 | 4.9 |

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 |

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| | | | |
|----------------------------|-------------------|----------------|-----------------|
| Report No: M-2020-00624 | Date: 10.12.2020 | Page 2 of 4 | Rev: |
| Purpose of Analysis | : SPECIAL REQUEST | Brand | : |
| Sample Type | : PROTECTIVE MASK | Model | : LP1-5 FFP2 NR |
| Sample Send Org. | : LINDENCARE GMBH | Sampler | : CUSTOMER |
| Manufacturer Name | : LINDENCARE GMBH | | |
| Analysis Date | : 07.12.2020 | | |
| Sample Quantity | : 100 pieces | | |
| Other informations | : | | |

| TESTS | LIMIT | RESULTS |
|---|---|-----------------|
| EN 149+ A1 Part 7.9.2 Penetration of filter material | Sodium chloride, 95 L/min% FFP1≤20 FFP2≤6 FFP3≤1 Paraffin oil, 95 L/min% FFP1≤20 FFP2≤6 FFP3≤1 | See below table |

| Penetration of filter material EN 149+ A1 Part 7.9.2 | Sodium Chloride (%) | Paraffin Oil (%) |
|---|---------------------|------------------|
| As received | 3.0 | 3.0 |
| As received | 3.7 | 3.5 |
| As received | 3.9 | 3.4 |
| After the simulated wearing treatment | 3.7 | 3.3 |
| After the simulated wearing treatment | 3.4 | 3.4 |
| After the simulated wearing treatment | 3.9 | 3.3 |
| Mechanical strength and temperature conditioning (120 mg) | 3.1 | 3.5 |
| Mechanical strength and temperature conditioning (120 mg) | 3.6 | 3.3 |
| Mechanical strength and temperature conditioning (120 mg) | 3.7 | 3.5 |

| TESTS | LIMIT | RESULTS |
|---|--|----------------------|
| EN 149+ A1 Part 7.11 Flammability | Mask shall not burn or not to continue to burn for more than 5 s | Flame not seen |
| EN 149+ A1 Part 7.12 Carbondioxide content of the inhalation air | Shall not exceed an average of % 1 | 0,60 0,67 0,63 |
| EN 149+ A1 Part 7.16 Breathing Resistance | Inhalation 30L/min FFP1≤0,6mbar FFP2≤0,7mbar FFP3≤1,0mbar Inhalation 95L/min FFP1≤2,1mbar FFP2≤2,4mbar FFP3≤3,0mbar Exhalation 160L/min FFP1≤3,0mbar FFP2≤3,0mbar FFP3≤3,0mbar | See below table |

| EN 149+ A1 Part 7.16 Breathing Resistance (mbar) | Inhalation 30L/min (mbar) | Inhalation 95L/min (mbar) |
|---|---------------------------|---------------------------|
| As received | 0.4 | 0.9 |
| As received | 0.4 | 0.8 |
| As received | 0.3 | 0.8 |
| After temperature conditioning | 0.3 | 0.8 |
| After temperature conditioning | 0.4 | 0.9 |
| After temperature conditioning | 0.3 | 0.8 |
| After the simulated wearing treatment | 0.3 | 0.9 |
| After the simulated wearing treatment | 0.3 | 0.8 |
| After the simulated wearing treatment | 0.4 | 0.9 |
| After the flow conditioning | - | - |
| After the flow conditioning | - | - |



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| | | | |
|-------------------------|------------------|-------------|------|
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| | | | |
|---------------------|-------------------|---------|-----------------|
| Purpose of Analysis | : SPECIAL REQUEST | Brand | : |
| Sample Type | : PROTECTIVE MASK | Model | : LP1-5 FFP2 NR |
| Sample Send Org. | : LINDENCARE GMBH | Sampler | : CUSTOMER |
| Manufacturer Name | : LINDENCARE GMBH | | |
| Analysis Date | : 07.12.2020 | | |
| Sample Quantity | : 100 pieces | | |
| Other informations | : | | |

| | | |
|-----------------------------|---|---|
| After the flow conditioning | - | - |
|-----------------------------|---|---|

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

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Purpose of Analysis : SPECIAL REQUEST
Sample Type : PROTECTIVE MASK
Sample Send Org. : LINDENCARE GMBH
Manufacturer Name : LINDENCARE GMBH
Analysis Date : 07.12.2020
Sample Quantity : 100 pieces
Other informations :

Brand :
Model : LP1-5 FFP2 NR
Sampler : CUSTOMER

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 TS 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.
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
10.12.2020
Volkan AKIN
Laboratory Manager