

TEST REPORT NUMBER: PRTT00077892
APPLICANT: APENA - REMONT SP. Z O O.
UL. PARTYZANTOW 61 A
43-300 BIELSKO BIALA

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DATE OF EMISSION: 29/09/2020

SAMPLE DESCRIPTION: Type Mask : Medical / Type II
Colour : Blue
Type and Composition of Material : Spunbond 25g + Meltblown 18g + Spunond 30g
Mass per unit Weight: 73g
End use : 2022
Supplier : Apena - Remont Sp. Z.o.o.
1 - Medical Masks
16/09/2020

DATE OF RECEPTION: 16/09/2020 and 29/09/2020

TEST PERFORMED BETWEEN DATES: 16/09/2020 and 29/09/2020

WORK DAYS: 10

REQUEST: Tests performed in accordance with APPLICANT TEST REQUEST specification

NOTES:

Samples

Test	1
*‡ BFE (FILTRATION)	M
*‡ DIFFERENCIAL PRESSURE (BREATHABILITY)	M
*‡ MICROBIAL CLEANLINESS/BIOBURDEN	M
*‡ SPLASH RESISTANCE PRESSURE	NC

M = Meet buyer's requirement; NM = does not meet buyer's requirement; NR = Not requested; NA = Not applicable; NC = No comment; SC = Still continues

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Textiles Laboratory Manager
ana.morgado@intertek.com

Test Method	Results	Requirements
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***‡ BFE (FILTRATION)**

EN 14683:2019+AC 2019

Sample: 1

Type II \geq 98%

RESULT

98.9%

Test Conditions:

Temperature: $21\pm 5^{\circ}\text{C}$ Humidity: $85\pm 5\%$

Dimensions of the test specimens: 49cm^2 (5 test specimens)

Side of the test specimen facing the challenge aerosol: intern

Air flow rate: 28.3 l/min.

MPS 2.9

Test specimen 1 (98.8%), Test specimen 2 (99.0%), Test specimen 3 (99.0%),

Test specimen 4 (98.7%), Test specimen 5 (99.0%).

The expanded uncertainty at a confidence level of 95%, $k=2$: 1.8%

***‡ DIFFERENCIAL PRESSURE (BREATHABILITY)**

EN 14683:2019+AC 2019

Sample: 1

Type II < 40 Pa/cm²

RESULT

31.6 Pa/cm²

Test Conditions:

Temperature: $21\pm 5^{\circ}\text{C}$ Humidity: $85\pm 5\%$

Number and general location of the areas of the mask the differential measurements were taken: Test performed with the direction of flow from the inside to the outside. Side and central location.

Air flow rate: 8L/min

Dimensions of the test specimens: 4.9cm^2 (5 test specimens)

Test specimen 1 (33.7 Pa/cm²), Test specimen 2 (31.6 Pa/cm²), Test specimen

3 (30.6 Pa/cm²), Test specimen 4 (30.6 Pa/cm²), Test specimen 5 (31.6

Pa/cm²)

The expanded uncertainty at a confidence level of 95%, $k=2$: 8.7%

***‡ MICROBIAL CLEANLINESS/BIOBURDEN**

EN ISO 11737-1:2018

Sample: 1

Type II \leq 30 cfu/g

RESULT

13 UFC/g

Test Conditions:

5 min shaker at 250rpm

Area of each test specimen: 5 test specimens

Mic30°C (3 days), Molds and yeasts 25°C (7 days)

Results: 16, 7, 14, 12, 13

The expanded uncertainty at a confidence level of 95%, k=2: 20%

***‡ SPLASH RESISTANCE PRESSURE**

ISO 22609:2004

Sample: 1

Type I + Type II Not required

RESULT

16 kPa

Test conditions: Samples pre-conditioned for at least 4 hours at Temperature and Relative humidity: $21 \pm 5^\circ\text{C}$ / $85 \pm 5\%$

Samples exposed to a jet of 2mL synthetic blood at pressure (low: 10.6 KPa; medium: 16.0 KPa; high: 21.3 KPa) aimed at the centre of the mask.

Test performed at laboratory temperature of 21°C and 45% relative humidity, within 60 seconds after the mask was removed from the conditioning chamber
Observation after 10±1 second of blood penetration on the opposite side of the mask.

Synthetic blood according to Annex B of ISO 22609: 2004 with surface tension of $42 \pm 2\text{mN} / \text{m}$, batch # 202010

Number and General location of the areas: 32 test specimen / center (pass at least Medium pressure test for 29 out of 32 samples as minimum, corresponding to AQL 4%, according EN 14683: 2019 mask Type IIR)

Results:

Medium pressure (16.0KPa) 32 specimen "pass", 0 specimen "fail"

Sample: 1

Type I + Type II Not required

RESULT

Medium pressure test for 29 out of 32 samples as minimum, corresponding to AQL 4%, according EN 14683: 2019 mask Type IIR)

Sample Medium Pressure 16.0 Kpa

Amost1	Pass
Amost2	Pass
Amost3	Pass
Amost4	Pass
Amost5	Pass
Amost6	Pass
Amost7	Pass
Amost8	Pass
Amost9	Pass
Amost10	Pass
Amost11	Pass
Amost12	Pass
Amost13	Pass
Amost14	Pass
Amost15	Pass
Amost16	Pass
Amost17	Pass
Amost18	Pass
Amost19	Pass
Amost20	Pass
Amost21	Pass
Amost22	Pass
Amost23	Pass
Amost24	Pass
Amost25	Pass
Amost26	Pass
Amost27	Pass
Amost28	Pass
Amost29	Pass
Amost30	Pass
Amost31	Pass
Amost32	Pass

