



Your notice of
10-03-2020

Your reference

Date
16-03-2020

Analysis Report 20.01414.00

Required tests :
EN 14683 (2019) + AC EN 14683 - annex B (2019) Bacterial filtration efficiency
(2019) + AC (2019)

Identification number	Information given by the client	Date of receipt
T2005346	PP Melblowa 25 g/m ² 5.03.2020 Batch 1	10-03-2020
T2005347	PP Melblowa 38 g/m ² 5.03.2020 Batch 2	10-03-2020
T2005348	PP Melblowa 25 g/m ² 5.03.2020 Batch 3	10-03-2020

[SIGNATURE]

Order responsible

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In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.

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Reference: T2005346 - PP Meltblown 25g/m² 5.03.2020 Batch 1

Bacterial filtration efficiency

Date of ending the test	16-03-2020
Standard used	EN 14683 - annex B (2019) + AC (2019)
Product standard	EN 14683 (2019) + AC (2019)
Sample description :	White non woven
Number of tested specimens :	5
BFE Area tested :	± 49 cm ²
Test specimen conditioning :	21 ± 5°C and 85 ± 5% RH
Side of the specimen in contact with the bacterial challenge :	Inner side
Challenge bacterial strain used :	<i>Staphylococcus aureus</i> ATCC6538
Bacterial challenge per test :	1700 - 3000 CFU
Total test time :	1 min. delivering challenge + 1 min. without challenge (air flow continuing)
Flow rate :	28.3 l/min
Positive control	Tests performed with no filter material in the air stream
Negative control	Test performed without challenge
Deviation from the standard	The test has not been performed on a mask but only on one layer of the tested material

Results

B = Bacterial filtration efficiency (%)

$$B = \frac{(C - T)}{C} \times 100$$

With C = mean of the total plate counts for the positive control runs
T = total count for the tested specimen

# test specimen	B (%)
1	96.4
2	96.0
3	95.6
4	94.9
5	96.0

Mean particle size of the bacterial challenge aerosol : 2.7 µm

Controls

Mean positive controls 2741 CFU
Negative control < 1 CFU

Reference: T2005347 - PP Meltblown 38 g/m² 5.03.2020 Batch 2

Bacterial filtration efficiency

Date of ending the test	16-03-2020
Standard used	EN 14683 - annex B (2019) + AC (2019)
Product standard	EN 14683 (2019) + AC (2019)
Sample description :	White non woven
Number of tested specimens :	5
BFE Area tested :	± 49 cm ²
Test specimen conditioning :	21 ± 5°C and 85 ± 5% RH
Side of the specimen in contact with the bacterial challenge :	Inner side
Challenge bacterial strain used :	<i>Staphylococcus aureus</i> ATCC6538
Bacterial challenge per test :	1700 - 3000 CFU
Total test time :	1 min. delivering challenge + 1 min. without challenge (air flow continuing)
Flow rate :	28.3 l/min.
Positive control	Tests performed with no filter material in the air stream
Negative control	Test performed without challenge
Deviation from the standard	The test has not been performed on a mask but only on one layer of the tested material



Results

B = Bacterial filtration efficiency (%)

$$B = \frac{(C - T)}{C} \times 100$$

With C = mean of the total plate counts for the positive control runs
 T = total count for the tested specimen

# test specimen	B (%)
1	99.3
2	99.3
3	99.6
4	99.5
5	99.2

Mean particle size of the bacterial challenge aerosol : 2.7 µm

Controls

Mean positive controls 2741 CFU
 Negative control < 1 CFU

Reference: T2005348 - PP Meltblown 25 g/m² 5.03.2020 Batch 3

Bacterial filtration efficiency

Date of ending the test	16-03-2020
Standard used	EN 14683 - annex B (2019) + AC (2019)
Product standard	EN 14683 (2019) + AC (2019)
Sample description :	White non woven
Number of tested specimens :	5
BFE Area tested :	± 49 cm ²
Test specimen conditioning :	21 ± 5°C and 85 ± 5% RH
Side of the specimen in contact with the bacterial challenge :	Inner side
Challenge bacterial strain used :	<i>Staphylococcus aureus</i> ATCC6538
Bacterial challenge per test :	1700 - 3000 CFU
Total test time :	1 min. delivering challenge + 1 min. without challenge (air flow continuing)
Flow rate :	28.3 l/min.
Positive control	Tests performed with no filter material in the air stream
Negative control	Test performed without challenge
Deviation from the standard	The test has not been performed on a mask but only on one layer of the tested material

Results

B = Bacterial filtration efficiency (%)

$$B = \frac{(C - T)}{C} \times 100$$

With C = mean of the total plate counts for the positive control runs
 T = total count for the tested specimen

# test specimen	B (%)
1	> 99.9*
2	> 99.9*
3	99.9
4	99.9
5	99.9

* no detected colonie on any of the Andersen sampler plates

Mean particle size of the bacterial challenge aerosol : 2.7 µm

Controls

Mean positive controls 2741 CFU
 Negative control < 1 CFU