

**Test Report**

No. 393/4002423/2020/TR

Date: 31 December 2020

Name of the client: Suomen Terveysturvato Oy
 Address of the client: Sarkiantie 409
 38200 Sastamala
 Finland

Contact person: Julia Talja

The following sample(s) was / were submitted and identified on behalf of the client as

Fabric masks in different patterns and colours

SGS Job No. : 4002423
 Sample receiving date(s) : 14 December 2020
 Testing Period : 16 to 30 December 2020

The following test(s) was / were performed in SGS Fimko laboratory.

<i>Test requested by the client</i>	<i>Method with reference to</i>
Visual inspection, Head harness, Differential pressure and breathing resistance	CWA 17553:2020

Signed for and on behalf of
 SGS FINLAND OY

Florent Trilles,
 Product Line Manager

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SGS Fimko Oy

Takomotie 8, FIN-00380 Helsinki, Finland
 t +358 9 696361, www.sgs.fi

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SGS Sample/Sub- sample No.	Sample designation	Material claimed to be
393	3-layer fabric masks, 10 different patterns	Inner and outer layer: cotton + bamboo, Middle layer: Spun Bond Melt Blown Filter (see photo of the packaging)
393-1	3-layer fabric mask – Pink	
393-2	3-layer fabric mask – Dark grey	
393-3	3-layer fabric mask – Dark blue	
393-4	3-layer fabric mask – White with grey dots	
393-5	3-layer fabric mask – Grey with white marks	
393-6	3-layer fabric mask – Peach	
393-7	3-layer fabric mask – Violet	
393-8	3-layer fabric mask – Dark peach	
393-9	3-layer fabric mask – Greenish grey	
393-10	3-layer fabric mask – Black	

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Test results

Visual inspection (With reference to CWA 17553:2020, Clauses 5.2 & 6.2)	Comments
<p>The producer shall carry out a visual inspection of the community face coverings or its components to meet the requirements of this clause. There shall be no defects visible (tears, detachment of the head harness, less accurate fit, deformation, wear, etc.). If any damage to the community face coverings are detected, they are deemed non-compliant.</p> <p>For reusable community face coverings, the visual inspection shall be carried out on samples that have been cleaned to the producer's instructions to ensure the performance declared by the producer.</p>	<p>The visual inspection was carried out on all the submitted samples such as received following client's instructions. No defects observed.</p> <p>As per client's request the cleaning was not performed deviating hence from the recommendation specified in CWA 17553 for reusable community face coverings.</p>

Head harness (With reference to CWA 17553:2020, Clauses 5.9, 6.2 & 6.3)	Comments
<p>The head harness shall be designed such that the community face coverings can be easily put on and removed. It shall withstand 5 cycles of being put on and removing (donning and doffing) and shall be checked on at least three test subjects with different morphologies. It shall be sufficiently robust to hold the community face coverings in place in such a way as to avoid excessive tightness and discomfort when worn.</p>	<p>Pass</p> <p>Tested samples 3, 6 & 7.</p> <p>One test subject commented that hair got stuck between the strap and the sliding adjustment of head harness when removing the community face covering.</p>

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<p>Differential pressure (With reference to CWA 17553:2020, Clauses 5.10, 6.5 and EN 14683:2019 + AC:2019)</p>	<p>Comments</p>
<p>The procedure was carried out with volume flow 8 l/min on 5 different 4,9 cm² areas of the mask and the readings averaged.</p> <p>CWA 17553: Differential pressure of the material should be equal or less than 70 Pa/cm².</p>	<p>Pass</p> <p>See the results in the table below.</p>

	sample 10	sample 4	sample 2	sample 3	sample 6	unit
upper middle	45,9	51,7	36,7	37,3	51,8	Pa/cm ²
middle	39,8	55,2	35,1	56,0	49,2	Pa/cm ²
lower middle	55,8	47,4	31,6	26,8	42,9	Pa/cm ²
left	52,0	62,4	51,7	48,5	55,3	Pa/cm ²
right	45,9	48,3	52,4	47,3	60,1	Pa/cm ²
average	47,9	53,0	41,5	43,2	51,9	Pa/cm²

Note(s): 1. Samples were conditioned 4 hours at 21 ± 5 °C, RH 85 ± 5 % as specified in standard EN 14683.

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<p>Breathing resistance (With reference CWA 17553:2020, Clause 5.10, 6.5 and EN 13274-3)</p>	<p>Comments</p>
<p>The material used for the community face covering shall not exceed the following limits for breathing resistance:</p> <ul style="list-style-type: none"> - Inhalation resistance of 2,4 mbar - Exhalation resistance of 3 mbar 	<p>Pass</p> <p>See the results in the table below.</p>

	inhalation 95 l/min	exhalation 160 l/min	unit
sample 1	95,3	152,4	Pa
sample 5	83,5	152,2	Pa
sample 7	133,7	216,2	Pa
sample 8	133,4	214,2	Pa
sample 9	111,2	182,5	Pa
average	111,4	183,5	Pa

	inhalation 95 l/min	exhalation 160 l/min	unit
sample 1	0,95	1,52	mbar
sample 5	0,84	1,52	mbar
sample 7	1,34	2,16	mbar
sample 8	1,33	2,14	mbar
sample 9	1,11	1,83	mbar
average	1,11	1,84	mbar

Notes: 1 Pa = 0,01 millibars

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Photo(s) of the submitted sample(s):



General view of one of the submitted fabric masks



Samples 1-5 of submitted fabric masks

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Samples 6-10 of the submitted fabric masks



Views of the texts present on the packaging of the submitted fabric masks

SGS authenticates the photo(s) on original report only.

End of report

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