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## PERSONAL PROTECTIVE EQUIPMENT PRODUCT CHECK ROUTINE TEST REPORT

**EN 149:2001+A1:2009**  
**Particle filtering half mask**

The examination and testing of Personal Protective Equipment were carried out in accordance with  
**MSZ EN ISO/IEC 17025:2005** standard  
by GÉPTESZT Kft. Notified Body, identified under number 2233 in the EU

<b>Customer:</b>	<b>Rotoform srl</b> Address: Via Ardeatina, km. 20, 400 (Via dei Tamarindi, 14)
<b>Model:</b>	<b>501 FFP2 NR</b>
<b>Classification:</b>	<b>FFP2 NR</b>
<b>Exhalation valve</b>	<b>no</b>
<b>Inhalation valve:</b>	<b>no</b>
<b>Uses:</b>	<b>non reusable (NR)</b>
<b>Project number:</b>	<b>GT285</b>
<b>Test report number:</b>	<b>VD36/285/X1/2021/EN</b>
<b>Project worksheet number:</b>	<b>VD-34-2021-285-X1</b>
<b>Date of the test:</b>	<b>2021.05.17 - 05.31.</b>
<b>Samples received date:</b>	<b>2021.05.10.</b>
<b>Sample numbers:</b>	<b>1-29</b>
<b>Attachment:</b>	<b>no</b>
<b>Issued:</b>	<b>Budapest, 2021.06.02.</b>

**GÉPTESZT KFT.**  
EVE Vizsgáló Laboratórium  
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1037 Budapest, Jablonka u. 79.  
Labor: 1032 Budapest, Gyenes u.12.

A handwritten signature in blue ink, appearing to read "Budai Dániel", is written over a dotted horizontal line.

**Budai Dániel**  
**Director of Laboratory**



**Relevant standards, directives and requirements:**

EN 149:2001+A1:2009 Filtering half masks to protect against particles

**Description of the sample**

The manufacturer will produce the particle filtering half mask in six more colours: yellow, black, blue, pink, gray, green. The layer structure of the mask have not changed.

The foldable mask is sold in white colour and consists of 5 layers:

1. Layer 1 (external) - 50 GSM no-woven cloth, waterproof, providing robustness to the mask such that it does not deforms while breathing. White color.
2. Layer 2 - 25 GSM ultra-fine polypropylene filter cloth; combined with the filtering layer it ensures a barrier to particulates. White color
3. Layer 3 - 25 GSM ultra-fine polypropylene filter cloth; combined with the filtering layer it ensures a barrier to particulates. White color.
4. Layer 4 - 25 GSM no-woven cloth waterproof fabric, White color.
5. Layer 5 (internal) - 25 GSM no-woven cloth waterproof fabric, for a perfect and hypoallergenic seal on the face. It does not cause irritation or any other adverse effect to health. White color.

The elastic ear loop is made of spandex+polyester. The nose bat is made of PE, PP, galvanized wire.



**Short description of routine tests:**

Requirement	Test method	Description	Result
7.9.2	8.11	Penetration of filter material: paraffin oil	Passed
7.11	8.6	Flammability	Passed
7.16	8.9	Breathing resistance	Passed



**Analysis and details of routine test results:**

**7.9.2 Penetration of filter material: paraffin oil**

Paraffin aerosol: concentration: 15-25 mg/m<sup>3</sup> flow: 95 l/min

Sample	Colour	Conditioning	Penetration, %	Exposure, %
1	pinkye	A.R.	2,13	NA
2	grey	A.R.	1,62	NA
3	blue	A.R.	2,02	NA
4	black	S.W.	1,86	NA
5	yellow	S.W.	2,08	NA
6	green	S.W.	2,59	NA
7	black	M.S→T.C.	NA	1,45
8	yellow	M.S→T.C.	NA	2,89
9	blue	M.S→T.C.	NA	1,63
Maximum permitted:			6 %	

The penetration of the filter material did not exceed the maximum permitted 6 % in case of any masks.

**PASSED**

**7.11 Flammability**

Sample	Colour	Conditioning
10	pink	A.R.
11	black	A.R.

The materials used do not present a danger for the wearer and are not of highly flammable nature. The samples did not burn.

**PASSED**



## 7.16 Breathing resistance

Sample	Colour	Cond.	Inhalation resistance, mbar		Exhalation resistance, mbar 160 l/min				
			30 l/min	95 l/min	ahead	vert.upwards	vert downwards	left	right
12	black	A.R.	0,32	1,09	1,82	1,82	1,82	1,81	1,82
13	black	A.R.	0,34	1,12	1,85	1,86	1,86	1,85	1,85
14	black	A.R.	0,32	1,08	1,81	1,80	1,79	1,80	1,80
15	blue	A.R.	0,31	1,05	1,79	1,79	1,80	1,79	1,79
16	blue	A.R.	0,32	1,06	1,80	1,81	1,82	1,81	1,81
17	blue	A.R.	0,30	1,03	1,75	1,76	1,75	1,75	1,74
18	green	A.R.	0,30	1,04	1,78	1,79	1,80	1,79	1,78
19	green	A.R.	0,32	1,06	1,74	1,74	1,73	1,73	1,73
20	green	A.R.	0,30	1,03	1,76	1,77	1,77	1,76	1,75
21	yellow	A.R.	0,31	1,04	1,73	1,74	1,75	1,74	1,73
22	yellow	A.R.	0,32	1,03	1,74	1,74	1,73	1,73	1,72
23	yellow	A.R.	0,31	1,02	1,76	1,77	1,76	1,77	1,76
24	grey	A.R.	0,29	1,05	1,73	1,74	1,73	1,73	1,73
25	grey	A.R.	0,30	1,04	1,71	1,71	1,72	1,70	1,71
26	grey	A.R.	0,29	1,03	1,75	1,76	1,75	1,75	1,75
27	pink	A.R.	0,29	1,02	1,70	1,71	1,72	1,71	1,70
28	pink	A.R.	0,30	1,01	1,68	1,68	1,70	1,69	1,68
29	pink	A.R.	0,29	1,00	1,67	1,66	1,67	1,68	1,67
<b>Maximum permitted:</b>			<b>0,7</b>	<b>2,4</b>	<b>3,0</b>				

None of the measured values exceeded the maximum values.

**PASSED**

**Result of the routine test: PASSED**

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