

Test Report No.: 244267961a 001

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Client: YIWU-HAMBURG GMBH AG Oldenburg HRB 215505

Contact Information: Baumgartenstrasse 14a, 26122 Oldenburg

Contact Person: Axel Stoyke

Sample Description As Declared :

No. Of Sample	60 pcs
Product Description	FFP2 Protective Face Mask
Brand	Purism
Colour	White
Lot No./ Batch code	20200909/ 2020/09/09
Material	Nonwoven fabric, Melt-blown nonwoven fabric
Test Type	Full test
Product Type	Single shift use only
Country of Origin	China
Buyer	daddys-choice.de Yiwu-Hamburg GmbH
Sales Destination (Country)	German/ European
Claimed Classification	FFP2
Manufacturer Name	Shandong Daddy's Choice Health Science and Technology Co., Ltd.
Manufacturer Address	Tiandingfeng Road, Garden Street, Economic Development Zone, Linyi County, Dezhou City, Shandong Province

Sample obtaining method: Sending by customer

Sample Receiving date: 2020-09-21 & 2020-09-23

Delivery condition: Apparent good, Samples tested as received

Test Period: 2020-09-23 to 2020-10-14

Test Specification:

 EN 149:2001 + A1:2009 Respiratory Protective Devices – Filtering Half Masks
 to Protect against particles- Requirements , testing marking

Test Result
Please refer to next page
Other Information:

"This article is proofed with the „company brand“ and is allowed to print other „advertise“ from the customer of „daddys-choise.de“ Yiwu-Hamburg GmbH also.

On the left side: 4 cm x 4,5 cm

On the right side 4 cm x 1,5 cm

Colour: all colour of RAL"

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.


2020-10-23

Candy Jiang/ Technical Manager

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

Summary of test results

Clause	Item	M001			
7.3	Visual inspection	M			
7.4	Package	M			
7.5	Material	M			
7.6	Cleaning and disinfection	N/A			
7.7	Practical performance	M			
7.8	Finish of parts	M			
7.9.1	Leakage	M			
7.9.2	Penetration of filter material	M			
7.10	Compatibility with skin	M			
7.11	Flammability	M			
7.12	Carbon dioxide content of the inhalation air	M			
7.13	Head harness	M			
7.14	Field of vision	M			
7.15	Exhalation valve(s)	N/A			
7.16	Breathing Resistance	M			
7.17	Clogging	N/A			
7.18	Demountable parts	M			
9	Marking	M			

Note : M = Meet Performance Standard
 N/R = Not Request
 N/A = Not Applicable

F = Below Performance Standard
 * = No Submitted Information
 M# = Refer to result page

Material list

Material No.	Material	Color/Pattern	Location
M001	Whole Product	White	FFP2 Protective Face Mask

1. Visual inspection

Test method : EN 149:2001+A1:2009 Clause 8.2

Clause	Item	M001
7.3	The visual inspection shall also include the marking and the information supplied by the manufacturer.	Pass
7.4	Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.	Pass
7.5	Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.	Pass
	After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the face piece or straps.	Pass
	When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Pass
	Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Pass
7.8	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs	Pass
7.18	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.	Pass

Remark:

N/A: Due to no relevant information/material

N/R: Due to not request

2. Practical performance

Test method : EN 149:2001+A1:2009 Clause 8.4 & 8.5

Clause	Item	M001
7.7	Wearing	Pass
7.7	Walking test	Pass
7.7	Work simulation test	Pass
7.10	Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health	Pass
7.13	The head harness shall be designed so that the particle filtering half mask can be donned and removed easily. The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device	Pass
7.14	The field of vision is acceptable if determined so in practical performance tests	Pass

Remark:

N/A: Due to no relevant information/material

N/R: Due to not request

3. Leakage

Test method : EN 149:2001+A1:2009 Clause 8.5
 Requirement : FFP2:
 At least 46 out of the 50 individual exercise results for total inward leakage $\leq 11\%$
 At least 8 out of the 10 individual wearer arithmetic means for the total inward leakage $\leq 8\%$

M001								
Subject	Condition	Specimen No.	Leakage (%)					
			Walk	Head Side/side	Head Up/down	Talk	Walk	Mean
BM	As received	1	8.972	7.096	4.587	6.882	8.663	7.240
ACH		2	9.147	8.266	6.521	6.136	7.651	7.544
ML		3	8.213	7.036	6.529	7.361	7.274	7.283
SG		4	7.999	6.893	7.021	7.382	7.003	7.260
YY		5	7.241	6.334	6.027	6.742	7.023	6.673
LLC	After conditioning	6	10.181	6.021	6.047	5.017	9.324	7.318
YL		7	8.143	6.214	6.145	7.283	7.964	7.150
KXH		8	9.436	6.015	6.338	7.016	8.247	7.410
KQ		9	8.268	6.431	6.117	6.528	7.831	7.035
DG		10	9.127	6.206	5.987	7.214	8.215	7.350
Conclusion		Pass						

Facial Dimension Of Subject (mm)										
Subject	BM	ACH	ML	LLC	DG	SG	YL	KQ	KXH	YY
Face length	135	127	120	120	130	135	115	120	130	130
Face width	160	159	133	140	145	155	135	135	155	165
Face Depth	130	122	115	115	132	132	118	115	120	143
Mouth Width	52	55	52	50	50	55	48	50	52	50

4. Flammability

Test method : EN 149:2001+A1:2009 Clause 8.6
 Requirement : $\leq 5s$

M001				
Item	Condition	Specimen No	Test results	Conclusion
Afterflame time (s)	As received	1	1.2	Pass
		2	1.0	
	After conditioning	3	1.3	
		4	1.5	

5. Carbon Dioxide Content Of The Inhalation Air

Test method : EN 149:2001+A1:2009 Clause 8.7
 Requirement : $\leq 1\%$

M001.						
Item	Condition	Test results				Conclusion
		Specimen 1	Specimen 2	Specimen 3	Mean	
Content (%)	As received	0.59	0.57	0.54	0.57	Pass

6. Breathing Resistance

Test method : EN 149:2001+A1:2009 Clause 8.9
 : FFP2:
 Requirement Inhalation: 30l/min: ≤0.7mbar
 Inhalation: 95l/min: ≤2.4mbar
 Exhalation: 160l/min: ≤3.0mbar

M001																
Flow rate (l/min)		Resistance (mbar)														
As received		Specimen 1					Specimen 2					Specimen 3				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
Inhalation	30	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6
	95	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8
Exhalation	160	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8
Simulated wearing treatment		Specimen 4					Specimen 5					Specimen 6				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
Inhalation	30	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	95	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8
Exhalation	160	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8
Temperature conditioned		Specimen 7					Specimen 8					Specimen 9				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
Inhalation	30	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	95	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Exhalation	160	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.8	2.8	2.8	2.8	2.8
Conclusion		Pass														

Remark: A: facing directly ahead; B: facing vertically upwards; C: facing vertically downwards; D: lying on the left side; E: lying on the right side

7. Penetration Of Filter Material

Test method : EN 149:2001+A1:2009 Clause 8.11
 Requirement : FFP2: ≤6%

M001			
Aerosol	Condition	Specimen No.	Penetration (%)
Sodium chloride Penetration	As received	1	0.001
		2	0.001
		3	0.001
	Simulated wearing treatment	4	0.001
		5	0.001
		6	0.001
	Mechanical strength + Temperature conditioned @ Exposure test of 120mg	7	0.011
		8	0.048
		9	0.042
Paraffin oil Penetration	As received	10	0.434
		11	0.258
		12	0.480
	Simulated wearing treatment	13	0.535
		14	0.518
		15	0.488
	Mechanical strength + Temperature conditioned @ Exposure test of 120mg	16	1.632
		17	1.796
		18	1.384
Conclusion		Pass	

8. Marking		
M001		
9.1 Packaging	The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.	
	9.1.1 The name, trademark or other means of identification of the manufacturer or supplier.	Present
	9.1.2 Type-identifying marking.	Present
	9.1.3 Classification The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D.	Present
	9.1.4 The number and year of publication of this European Standard.	Present
	9.1.5 At least the year of end of shelf life. The end of shelf life may be informed by a pictogram as shown in Figure 12a, where yyyy/mm indicates the year and month.	Present
	9.1.6 The sentence 'see information supplied by the manufacturer', at least in the official language(s) of the country of destination, or by using the pictogram as shown in Figure 12b.	Present
	9.1.7 The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d.	Present
	9.1.8 The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D". ID This letter shall follow the classification marking preceded by a single space.	N/A
9.2 Particle filtering half mask	Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:	
	9.2.1 The name, trademark or other means of identification of the manufacturer or supplier.	Present
	9.2.2 Type-identifying marking.	Present
	9.2.3 The number and year of publication of this European Standard.	Present
	9.2.4 Classification The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D.	Present
	9.2.5 If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the classification marking preceded by a single space.	N/A
	9.2.6 Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.	N/A

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Photo:



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