

**Technical Construction File
EN 14683: 2019**

Medical face masks - Requirements and test methods

Report reference No.....	: TMSD20030521962
Compiled by (+ signature).....	: Stephen Zhang / Test Engineer
Approved by (+ signature).....	: Kosco Vent / Project Manager
Date of issue.....	: March 09,2020
Reviewing laboratory.....	: Shanghai Global Testing Services Co., Ltd.
Reviewing location.....	: Floor 2nd, Building D-1, No. 128, Shenfu Road, Minhang District, Shanghai, China.
Applicant.....	: Beijing Daddy's Choice Science and Technology Co. Ltd
Address.....	: F3, Building 3, Gear factory, No.2 of Ding Fu Zhuang Xi Li, Chaoyang District, Beijing, 100024, China
Manufacturer.....	: Shandong Daddy's Choice Health Science and Technology Co.Ltd
Address.....	: South Tiangfeng Road, Dongshou Road, Huayuan Street,Linyi County, Dezhou City, Shandong Province China
Factory.....	: The same as applicant
Address.....	:
Standard.....	: <input checked="" type="checkbox"/> EN 14683: 2019
Review Report Form No.....	: 14683
TRF originator.....	: GTS
Master TRF.....	: Reference No. EN 14683: 2019
Review procedure	: GTS
Type of Review object.....	: Purism Disposable Face Mask
Trademark.....	: -
Model/type reference.....	: 17.5cm*10.5cm
Rating.....	: 17.5cm*10.5cm



Possible review case verdicts:

- review case does not apply to the test object..... : N(.A.)
- review object does meet the requirement..... : P(ass)
- review object does not meet the requirement..... : F(ail)

General remarks:

"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

The review results presented in this report relate only to the object reviewed.

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Testing:

Date of receipt of review item:

March 02,2020

Date(s) of performance of review:

March 02,2020 to March 09,2020

General product information:

Purism Disposable Face Mask

Summary of reviewing:

This review report includes:

Annex I: 3 page(s) of photo documentation.

Copy of marking plate

Purism Disposable Face Mask ,

Marking

Model 17.5cm*10.5cm



Shandong Daddy's Choice Health Science and Technology Co.Ltd

4	Classification		--
	Medical face masks specified in this European Standard are classified into two types (Type I and Type II) according to bacterial filtration efficiency whereby Type II is further divided according to whether or not the mask is splash resistant. The 'R' signifies splash resistance.		P
5	Requirements		--
5.1	General		--
5.1.1	Materials and construction		--
	The medical face mask is a medical device, generally composed of a filter layer that is placed, bonded or moulded between layers of fabric. The medical face mask shall not disintegrate, split or tear during intended use. In the selection of the filter and layer materials, attention shall be paid to cleanliness.		P
5.1.2	Design		--
	The medical face mask shall have a means by which it can be fitted closely over the nose, mouth and chin of the wearer and which ensures that the mask fits closely at the sides. Medical face masks may have different shapes and constructions as well as additional features such as a face shield (to protect the wearer against splashes and droplets) with or without anti-fog function, or a nose bridge (to enhance fit by conforming to the nose contours).		P
5.2	Performance requirements		--
5.2.1	General		--
	All tests shall be carried out on finished products or samples cut from finished products.		P
5.2.2	Bacterial filtration efficiency (BFE)		--
	When tested in accordance with Annex B, the BFE of the medical face mask shall conform to the minimum value given for the relevant type in Table 1. For thick and rigid masks such as rigid duckbill or cup masks the test method may not be suitable as a proper seal cannot be maintained in the cascade impactor. In these cases, another valid equivalent method shall be used to determine the BFE. When a mask consists of two or more areas with different characteristics or different layer-composition, each panel or area shall be tested individually. The lowest performing panel or area shall determine the BFE value of the complete mask.		P
5.2.3	Breathability		--
	When tested in accordance with Annex C, the		P

	<p>differential pressure of the medical face mask shall conform to the value given for the relevant type in Table 1.</p> <p>If the use of a respiratory protective device as face mask is required in an operating theatre and/or other medical settings, it might not fulfil the performance requirements with regard to differential pressure as defined in this European Standard. In such case, the device should fulfil the requirement as specified in the relevant Personal Protective Equipment (PPE) standard(s).</p>																						
5.2.4	Splash resistance		--																				
	When tested in accordance with ISO 22609:2004 the resistance of the medical face mask to penetration of splashes of liquid shall conform to the minimum value given for Type IIR in Table 1.		N/A																				
5.2.5	Microbial cleanliness (Bioburden)		--																				
	<p>When tested according to EN ISO 11737-1:2018 the bioburden of the medical mask shall be ≤ 30 CFU/g tested (see Table 1).</p> <p>To determine the mask's bioburden according to EN ISO 11737-1:2018, refer to the procedure as described in Annex D.</p> <p>The number of masks that shall be tested is minimum 5 of the same batch/lot.</p> <p>Other test conditions as described in EN ISO 11737-1:2018 may be applied.</p> <p>In the test report, indicate the total bioburden per individual mask and based on the mask weight, the total bioburden per gram.</p>		P																				
5.2.6	Biocompatibility		--																				
	According to the definition and classification in EN ISO 10993-1:2009, a medical face mask is a surface device with limited contact. The manufacturer shall complete the evaluation of the medical face mask according to EN ISO 10993-1:2009 and determine the applicable toxicology testing regime. The results of testing should be documented according to the applicable parts of the EN ISO 10993 series. The test results shall be available upon request.		P																				
5.2.7	Summary of performance requirements		--																				
	<p style="text-align: center;">Table 1 — Performance requirements for medical face masks</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Test</th> <th style="text-align: center;">Type I^a</th> <th style="text-align: center;">Type II</th> <th style="text-align: center;">Type IIR</th> </tr> </thead> <tbody> <tr> <td>Bacterial filtration efficiency (BFE), (%)</td> <td style="text-align: center;">≥ 95</td> <td style="text-align: center;">≥ 98</td> <td style="text-align: center;">≥ 98</td> </tr> <tr> <td>Differential pressure (Pa/cm²)</td> <td style="text-align: center;">< 40</td> <td style="text-align: center;">< 40</td> <td style="text-align: center;">< 60</td> </tr> <tr> <td>Splash resistance pressure (kPa)</td> <td style="text-align: center;">Not required</td> <td style="text-align: center;">Not required</td> <td style="text-align: center;">≥ 16,0</td> </tr> <tr> <td>Microbial cleanliness (cfu/g)</td> <td style="text-align: center;">≤ 30</td> <td style="text-align: center;">≤ 30</td> <td style="text-align: center;">≤ 30</td> </tr> </tbody> </table> <p>^a Type I medical face masks should only be used for patients and other persons to reduce the risk of spread of infections particularly in epidemic or pandemic situations. Type I masks are not intended for use by healthcare professionals in an operating room or in other medical settings with similar requirements.</p>	Test	Type I ^a	Type II	Type IIR	Bacterial filtration efficiency (BFE), (%)	≥ 95	≥ 98	≥ 98	Differential pressure (Pa/cm ²)	< 40	< 40	< 60	Splash resistance pressure (kPa)	Not required	Not required	≥ 16,0	Microbial cleanliness (cfu/g)	≤ 30	≤ 30	≤ 30		--
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Microbial cleanliness (cfu/g)	≤ 30	≤ 30	≤ 30																				

6	Marking, labelling and packaging		--
	<p>Annex I, § 13, of the Medical Devices Directive (93/42/EEC) or Annex I, § 23, of the Medical Device Regulation (EU) 2017/745 specifies the information that should be specified on the packaging in which the medical face mask is supplied.</p> <p>The following information shall be supplied:</p> <ul style="list-style-type: none">a) number of this European Standard;b) type of mask (as indicated in Table 1).c) EN ISO 15223-1:2016 and EN 1041:2008+A1:2013 should be considered.		P

- End of Review Report -

Type of equipment, model: Purism Disposable Face Mask
17.5cm*10.5cm

Details of:

View:

general

front

rear

right

left

top

bottom



Details of:

View:

general

front

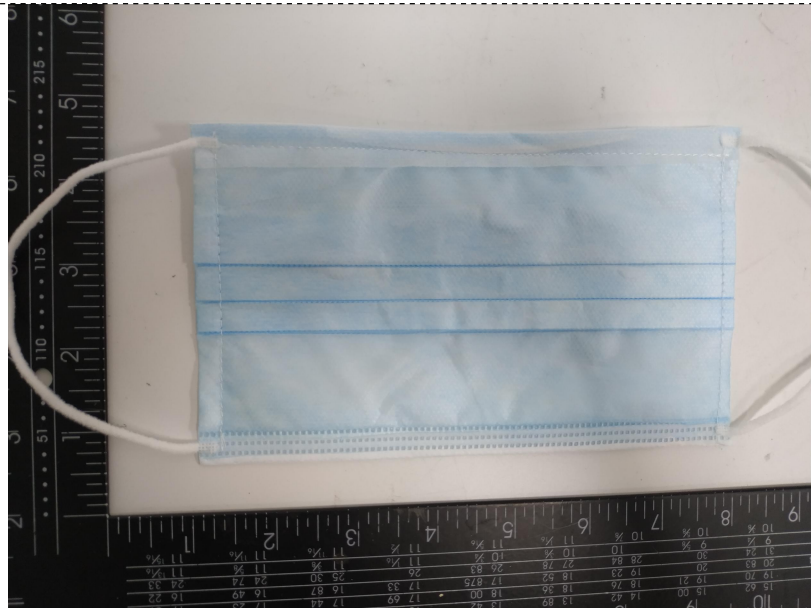
rear

right

left

top

bottom



Details of:

View:

general

front

rear

right

left

top

bottom



Details of:

View:

general

front

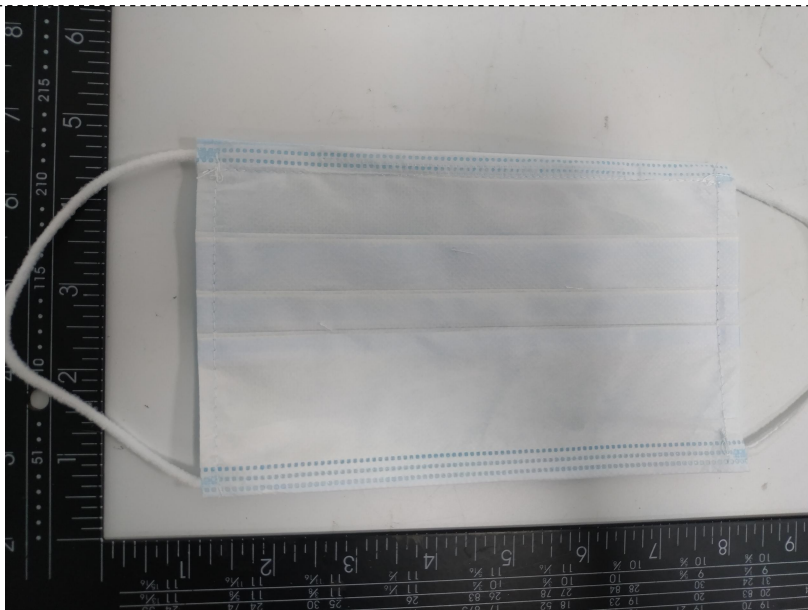
rear

right

left

top

bottom



Details of:

View:

general

front

rear

right

left

top

bottom



Details of:

View:

general

front

rear

right

left

top

bottom

