

### Single-use Face Mask

#### Introduction

- 1 The mask consists of three layers of non-woven fabric, the outer layer is blue polypropylene spunbond non-woven fabric, the middle layer is polypropylene meltblown non-woven fabric with bacteria and particle filtering effect, and the inner layer is white polypropylene spunbond non-woven fabric.
- 2 The masks are suitable for wearing in an ordinary medical environment, blocking the exhalation or spraying of pollutants from the oral or nasal cavities. Used in non-invasive operation, bacterial filtration efficiency is over 95%.
- 3 Disposable medical mask products are based on industry recommended standards YY / T 0969-2013. Equivalent to EN 14683 Type I (EU)



Fig. 1 Product appearance

### **Product specifications**

- I. Mask length; >170 mm; Mask width; 165 mm, three stacks in the middle, the width of the mask after stacked is 95 mm, and the width of each stack ≥ 10 mm. The nose-clip side as the upper part and the dark color as the outer side. After opening the stack, the opening side should face down;
- The width of the pressing edge ≤ 10 mm, and the upper nose-clip ≤ 16 mm; for the nose-clip, length>80 mm, width is preferably 3mm;
- For ear-loop, length is 180 mm and diameter is 3 mm. The material is polyester spandex. The inner layer is welded and the distance from the mask edge is not more than 10 mm.

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Items	Parameters	
Product name	Single-use face mask	
Textures	Polypropylene spunbond non-woven fabric, polypropylene melt-blown non-wove fabric, metal core plastic nose-clip.	
Model	Flat	
Size	17.5 cm*9.5 cm	
Application	Used mainly for respiratory protection of related personnel, which can filter particles in the air and block droplets and microorganisms.	



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Expiration date	The validity period is subject to the validity period promised by the non-woven fabric supplier, and the maximum period shall not exceed three years.		
Packaging size	5 pcs / bag, 50 pcs (10 bags) / box, 2000 pcs (40 boxes) / carton		
Sterilization type	Non-sterile		
Usage	Flatten the mask and hang both sides of the mask on your ears; Fix the nose-clip in the shape of the nose to prevent dirty air from entering; Pull the mask to the lower jaw so as to produce a good protective effect.		
Special storage conditions and methods	Store in a relative humidity not exceeding 80%, non-corrosive gas, in a well-ventilated room and avoiding high temperatures.		
Remarks	Epidemic emergency products		

Table 2 Technical requirements for the inner and outer spunbond nonwovens

Items		Index	
Areal density		25 g/m2	
Breaking strength	Longitudinal	26 N/5cm	
	Horizontal	18 N/5cm	
Fluorescence		None	
Formaldehyde content		≤ 300 mg/kg	
рН		5.4-7.6	
Microbial index	Total number of bacteria	cfu/g ≤20	
	Coliform	None	
	Pathogenic pyogenic bacteria	None	
	Total fungal colonies	None	
Biological evaluation	Cytotoxicity	Not more than 2 levels	
	Skin irritation	Primary stimulation index does not exceed 0.4	
	Delayed hypersensitivity	None	



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Table 3 Technical requirements for the interlayer meltblown non-woven fabric

Items		Index	
Areal density		25 g/m2	
Fluorescence		None	
Formaldehyde content		≤ 300 mg/kg	
рН		5.4-7.6	
Microbial index	Total number of bacteria	cfu/g ≤20	
	Coliform	None	
	Pathogenic pyogenic bacteria	None	
	Total fungal colonies	None	
Particle filtration efficiency		≥ 30 %	
Bacterial filtration efficiency		≥ 95 %	