
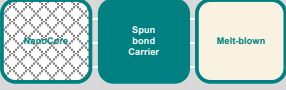



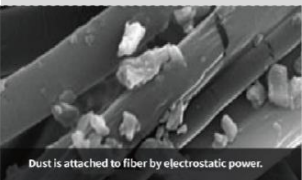
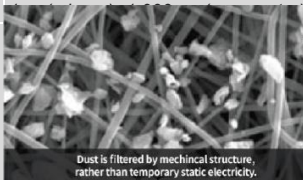
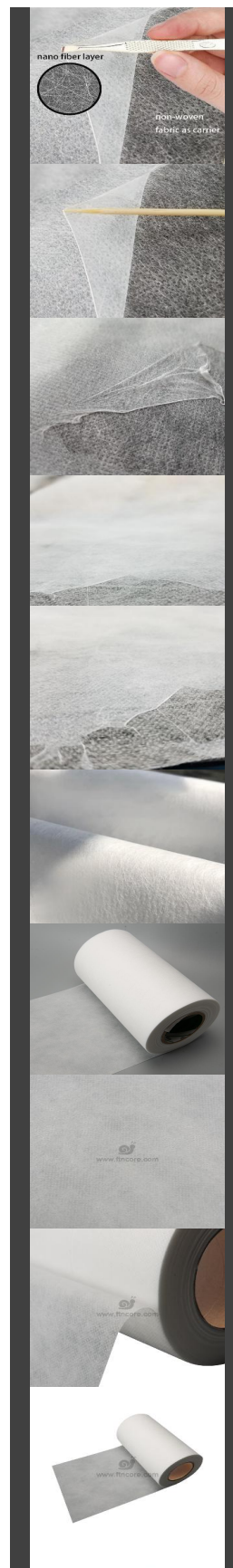
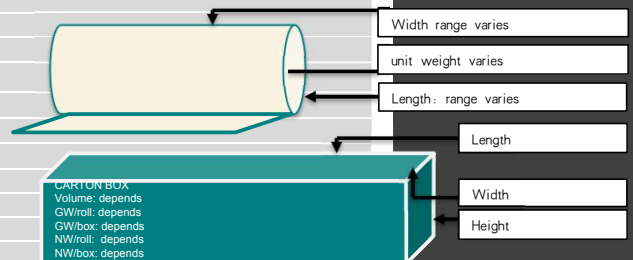


<b>Catalogue:</b>	ForPolymer Mask raw series	
<b>Type:</b>	Mask filter Nanofiber material roll	
<b>Color:</b>	White	Optional
<b>Washable:</b>	Resuable:	Yes
<b>Degradable:</b>	Compostable:	Optional
<b>Standard:</b>	<b>Facepiece</b>	<b>Certifying authority</b>
	KN90/KN95//KN100	GB 2626-2006
	Daily Protective mask	GB/T 32610-2016
	Surgical mask	YY 0469-2011
	Disposable medical mask	YY/T 0906-2013
	N90/N95/N99/N100	America NIOSH
	FFP1	EN149 FFP1-PFE80
	FFP2	EN149 FFP2-PFE94
	FFP3	EN149 FFP3-PFE99
	Surgical mask	EN14683 I-BFE95
	Surgical mask	EN14683 II-BFE98
	Customizable	Fortune Core provides assistance to certify standards.
<b>Nanofiber:</b>	Linear material with a certain aspect ratio of nano scale.	
<b>Electrospun:</b>	Electrospinning is a method of producing fibers with a nanoscaled diameter by controlling electric field and stretching the charged filament of polymer solution or melt.	
<b>Process:</b>	<ol style="list-style-type: none"> <li>1. Polymer as solution or melt.</li> <li>2. By 100KV electric field, the solution or melt will be stretched into polymer fibers.</li> <li>3. Non-woven, spunbond or desired materials as carrier.</li> <li>4. Nanofiber forming by spinning process.</li> <li>5. Compound with carrier or additional desired layers.</li> </ol>	
<b>Bio-based:</b>	<p>Poly(lactic Acid (PLA) Optional i.e. The Environment-friendly Plastic is preferred to meet better environmental protection standard. PLA is a biodegradable and bioactive polyester made up of lactic acid building blocks and made from renewable, biobased and biodegradable feedstocks like corn, sugarcane, sugar beet and cassava.</p> 	
<b>Pretreatment:</b>	This pretreatment is called the aging test. The principle of pretreatment is also to simulate the efficiency performance after wearing a mask for half a day or one day.	
<b>Shaping:</b>	Suitable for foldable, cup masks and other specific shaping.	
<b>Structure:</b>	Resuable	Degradable
	Outer layer: Melt-blown	Outer layer: PLA Spunbond
	NanoCore: Nanofiber	NanoCore: Nanofiber
	Inner layer: Spunbond	Inner layer: PLA Spunbond
	Custommizable: Supports desired more layers for specific goals	
	 	
	 	
<b>Advanteges against traditional melt-blown:</b>	<ol style="list-style-type: none"> <li>1. Nanofiber provides superior performance.</li> <li>2. Nanofiber denser mesh intercepts smaller particles.</li> <li>3. Nanofiber supports more eco - friendly washable, reusable, degradable, compostable options.</li> <li>4. Nanofiber is more stable effective with little reduction in filtration efficiency due to mechanical principle.</li> <li>5. Nanofiber is highly customizable for various specific purposes.</li> </ol>	
<b>Diameter scale:</b>	<b>Melt-blown</b>	<b>Nanofiber</b>
	3-10 μm	300-500 nm
<b>SEM:</b>	 <p>Dust is attached to fiber by electrostatic power.</p>	 <p>Dust is filtered by mechnical structure, rather than temporary static electricity.</p>



	<b>Melt-blown</b>	<b>Nanofiber</b>		
<b>Filtration:</b>	Static and less efficient due to moisture generated during breathing. Electrostatic adherence filtration and requires electrets and dielectric process with long-term charge storage.	Nanofiber is characteristic of physical filtration (AKA Mechanical filtration) with uniform pore size distribution, small average pore size and large porosity to filter particles. More effective for PM2.5, bacteria, germs and viruses down to 0.1µm.		
<b>Aperture:</b>	High	Small		
<b>Porosity:</b>	less intercepting particles	Dense mesh with more intercepting smaller particles.		
<b>Breathability:</b>	Thick fiber and higher aperture result in internal and external air conflict which leads to breathing difficulties with less air inhaling and exhaling.	Superfine pores, lower aperture and solid stable structure bring excellent permeability and comfortable use.		
<b>Resistance:</b>	High	Lower and more comfortable and breathable		
<b>Efficiency:</b>	Lower by sole static interception	Higher by physical (optional static) interception rate with longer life		
	As the electrostatic adherence effect weakens gradually, the pollutants attached to the fiber can easily invade the respiratory system.	Mechanical interception, not affected by electrostatic and can provide longer life service.		
<b>Bio:</b>	General and seldom applied	Take both merits of PLA applying to Nanofiber to the maximum effect.		
<b>Weight:</b>	Heavier	Light		
	<b>Melt-blown-PLA</b>	<b>Nanofiber-PLA</b>		
<b>Description:</b>	In addition to the above advantages, more	specific advantages in PLA.		
<b>Degradable:</b>	N/A	GB standard of degradable		
<b>Initial Efficiency:</b>	BFE95	BFE99/PFE99		
<b>After pretreatment:</b>	BFE60	BFE98/PFE98		
<b>High temperature:</b>	Badly deformed	No impact		
		GB pretreatment of temperature		
		High 70℃ / Low -30 ℃		
<b>High humidity:</b>	Electrostatic loss	No impact		
		CE/GB pretreatment of 85% humidity		
	<b>Test Conditions</b>	<b>Filter Efficiency</b>		<b>Resistance</b>
<b>N95/KN95 series</b>	NaCl 0.3µm Particulate Air Flow 85L/min	> 97%	52g	< 80Pa
<b>N99 series</b>		> 99.5%	57g	< 105Pa
<b>N100/KN100 series</b>		> 99.97%	57g	< 135Pa
<b>FFP2 series</b>	DOP 0.3µm Particulate Air Flow 95 L/min	> 98%	52g	< 105Pa
<b>FFP3 series</b>		> 99.9%	57g	< 135Pa
<b>PLA-BFE95</b>	EN 14683	BFE > 95%	52g	< 40Pa
<b>PLA-BFE98</b>	EN 14683	BFE > 98%	52g	< 40Pa
<b>PLA-FFP2</b>	EN 149	PFE > 98%	62g	< 160Pa
<b>Bio BFE95</b>	EN 14683	BFE > 95%	52g	< 40Pa
<b>Bio BFE98</b>	EN 14683	BFE > 98%	52g	< 40Pa
<b>Bio PFE98 foldable mask/ fish shaped mask</b>	EN 149	PFE > 98%	62g	< 150Pa
<b>Lead time:</b>	Sample	7 days		
	Mass production	20 days		
<b>Packaging:</b>	Roll			
	Carton box			
<b>Trade term:</b>	FOB preferred			
	Customized			
<b>Port of loading:</b>	Shenzhen			
<b>MOQ:</b>	1000 units	Units could be kg, pc, mt, m2 etc		
		The stock may vary accordingly		
<b>Quantity:</b>	1 - 1000	Contact us for detailed info		
	1001 - 5000	15 days		
	5001 - 10000	20 days		
	>10000	30 days		
		To be negotiated		
<b>Disclaimer:</b>	If at any time because of war, hostility, military operation of any character, civil commotions, sabotage, quarantine restriction, acts of Government, fire, floods, explosions, covid 19 related breakout, lockdown, epidemics, pandemic, strikes or other labor trouble, embargoes, and any other matter beyond human control/capability, then the date of any obligation shall be postponed during the time when such kind of circumstances is operative.			



	<p>If operation of such kind of circumstances exceeds three months, either party will have the right to refuse further performance of the related order/contract in which case neither party shall have the right to claim eventual damages. The party that is unable to fulfill its obligations under the present order/contract must within 15 days of occurrence inform the other party of the existence of the termination of the circumstances preventing the performance of the order/contract. Certificate issued by a Chamber of Commerce or any other competent authority connected with the cause in the country of the Seller or the Buyer shall be sufficient proof of the existence of the above circumstances and their duration.</p>	
	<p>The information supplied in this document is for guidance only and should not be construed as a warranty. All users of the material are responsible for ensuring that it is suitable for their needs, environment, and end use. Revisions on all data maybe made without notice.</p>	
<b>REFERENCE:</b>	1 according to requirements of industry standards	
	2 according to incoterms 2010	
	3 according to Fortune Core's standard spec criterion	
	4 according to appropriate practical tesing result	
	5 measurements without any pre conditioning	
	6 according to ICC practice	
	7 according to Fortune Core's standard packing criterion.	
	8 datasheets and info are subject to change accordingly without notice	