



## Filti Face Mask Material Data Sheet

Filti's Face Mask Material is engineered using our patent-pending Nanofiber technology and is highly-efficient (up to 95%) on sub-micron particles, including bacteria and viruses.

### Construction Details:

Filti Face Mask Material is constructed from polypropylene spunbond nonwoven with a Nanofiber fine filtration layer and surface layer of polyester nonwoven.

**Style Number:** 3-Layer lightweight composite  
(NP097) filter media

**Description:** Polypropylene/Nanofiber/Polyester composite filter media

**Finish:** Sonic lamination

### Material Comparison:

When compared, Filti Face Mask Material far exceeds standard cloth and fabric materials in efficiency percentage.

Polyester/Cotton Tights	2.50%
Polyester Dress Shirt	2.50%
Cotton Shirt	9.30%
Polyester/Cotton Sewing Fabric	10.40%
Microfiber Dish Towel	14.50%
<b>Filti Face Mask Material</b>	<b>95.00%</b>

\* Results are the outcome of a single test on a TSI 8130 - they are not guaranteed to be representative of all Filti Mask Material.

Property	Target	Metric	Test Method
Weight	2.06 - 2.36 (70 - 80)	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	ASTM D461
	n/a	lb (lbs/3000ft <sup>2</sup> )	TAPPI 410
Air Permeability	28 - 35	ft <sup>3</sup> /min/ft <sup>2</sup> (cfm) @ .5" H <sub>2</sub> O	ASTM D 737 (U.S.)
	140 - 180	l/dm <sup>2</sup> /min @ 200 Pa	DIN 53887 (Germany)
Thickness	0.040 / 1.00	inches / mms	TAPPI 411
Currugation Depth	n/a	inches / mms	TAPPI 411
MERV Rating	MERV 16		ASHRAE 52.2
Filtration Rating	Ref. F7	Up to 95% efficient at 0.3 micron at 5.33cm/sec face velocity	TSI 3160
Target Pressure Drop	< 60 pascals	Pascals at 5.33cm/sec face velocity	TSI 3160
Tensile Strength (MD)	n/a	lbs/2"	ASTM D-461
Process Data	Roll length up to 1200 linear meters. Supplied on 76mm or 3.0" ID cores		
Applications	Surgical Face Mask Applications		



If you have any questions, please don't hesitate to contact Filti at:

**913-274-9843**

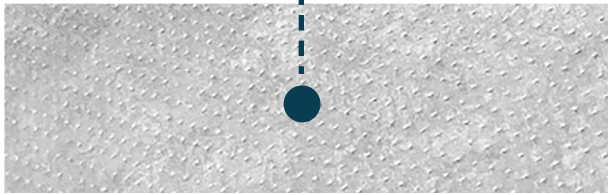
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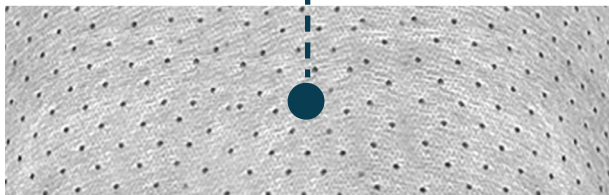


## Which way does it face?



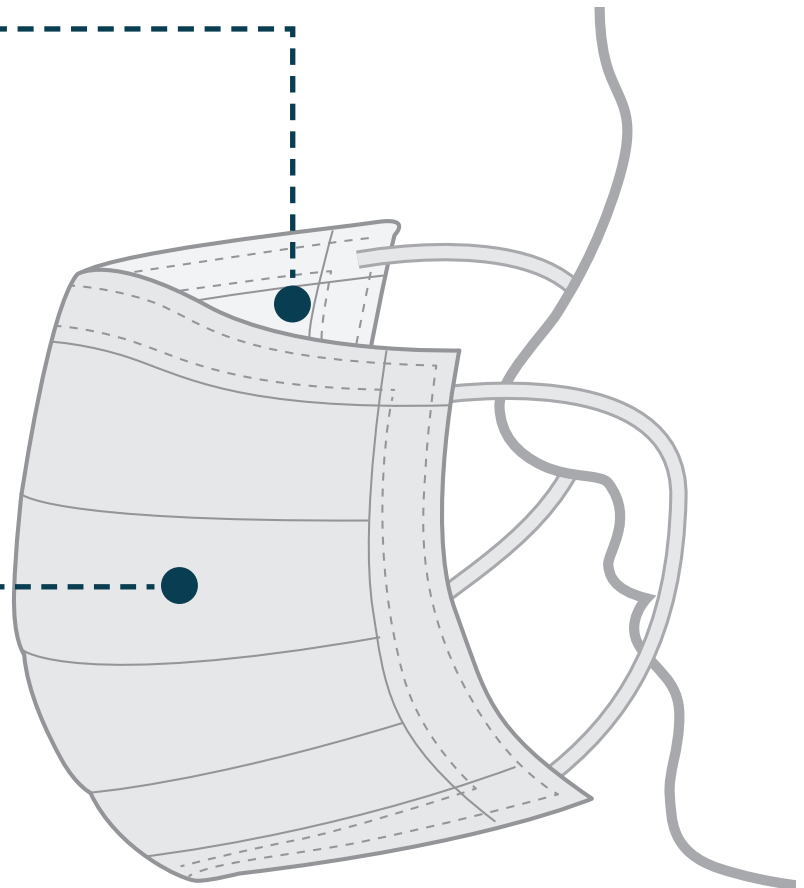
### **INSIDE OF MASK** (faces towards face)

Has shallower bond points  
and extra texture.



### **OUTSIDE OF MASK** (faces away from face)

Has deeper bond points  
and loftier texture.



DISCLAIMER: Filti makes no warranties, either express or implied that this material or masks made from it, prevent infection or the transmission of viruses or diseases. Do not use this material in any setting or where significant exposure to liquid, bodily or other hazardous fluids, may be expected. Do not use this in settings where the infection risk level through inhalation exposure is high. Do not use this material in the presence of an open flame, heat source or flammable gases or liquids. All data contained above is nominal and provided for information purpose only. This data is not to be construed as manufacturing specifications and is subject to change. Filti does not guarantee the performance of this material in a face mask or the performance or masks made from it. Filti Face Mask Material is not a substitute for medical treatment or medical devices.

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