



LIFE'S WORTH IT...

TECHNICAL DATA SHEET

Description: **Anti-Smog Window Membrane**

Product Code: **RWM**

The **RESPILON® nanofiber window membrane** is for installation into windows and ventilation systems, and its primary purpose is to form a barrier against pollen, dust and air pollution. It is also able to stop the spread of mildew and bacterial spores, while being at the same time very permeable for air, gases and water vapours. Particles are caught mechanically. The membrane does not contain any chemical substances.

RESPILON® is a filtering material with an efficiency of PM 2.5 (the ability to filter more than 95 % of particles with size of 2.5µm and less). Thus, the membrane is suitable for use in the households of allergic and asthmatic people, as well as those of people with cardiovascular disorders or pulmonary disease who live in areas or regions with high levels of air pollution.

The unique filtering ability of the membrane is provided by a nanofiber layer locked inside the membrane. Technically the **RESPILON®** membrane is a three-layer laminate containing a breathable mesh and a nanofiber layer. Fabric components used in membrane are stabilized against UV radiation. The compactness is ensured by material lamination.

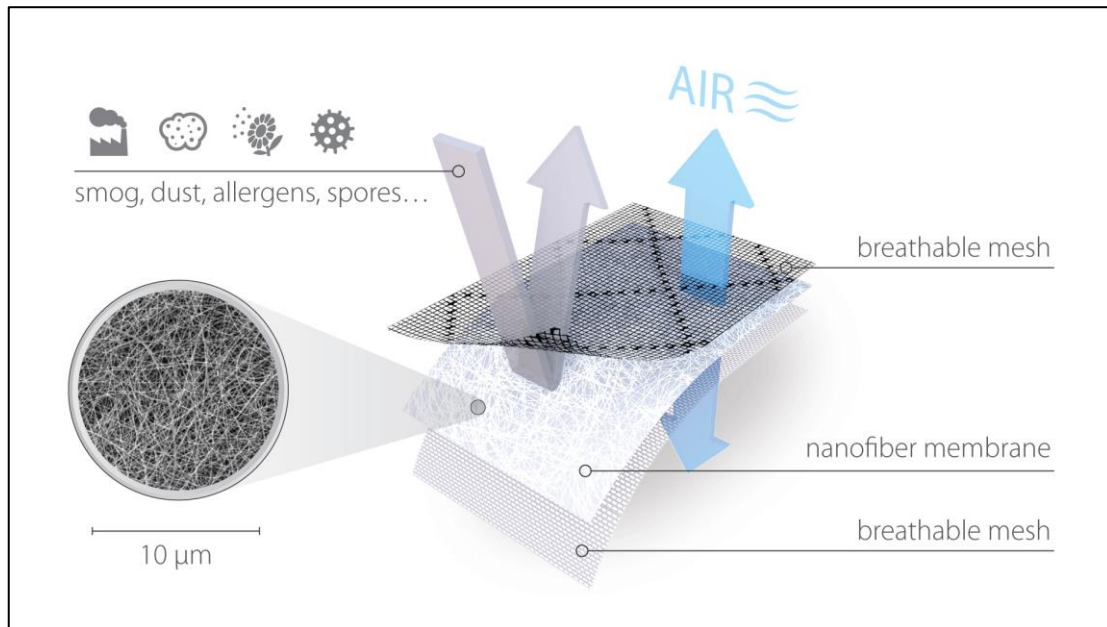
Description

Physical Property	Value	Unit	Test Method/Institution
Basic Weight	121.6	g/m ²	BS ISO 536
Thickness	0.58	mm	ISO 9073 2
Air Permeability @ 125 Pa	202	cfm	ASTM D737-96 (Frazier)
Air Flow Resistance @ 5.33 cm/s, 32 l/min	0.59	mm H ₂ O	ASTM D 2986
Filtration Efficiency 1.0 µm @ 1.2 l/min	82.9	%	WM-FE-01-2016
Filtration Efficiency 2.0 µm @ 1.2 l/min	97.6	%	WM-FE-01-2016
Filtration Efficiency 3.5 µm @ 1.2 l/min	99.9	%	WM-FE-01-2016
Filtration Efficiency 5.0 µm @ 1.2 l/min	100.0	%	WM-FE-01-2016

Composition

99% Polyester, 1% Polyvinylidene fluoride

Visualisation



Date of the last revision:
26/09/2018