

PermaFlow Filter

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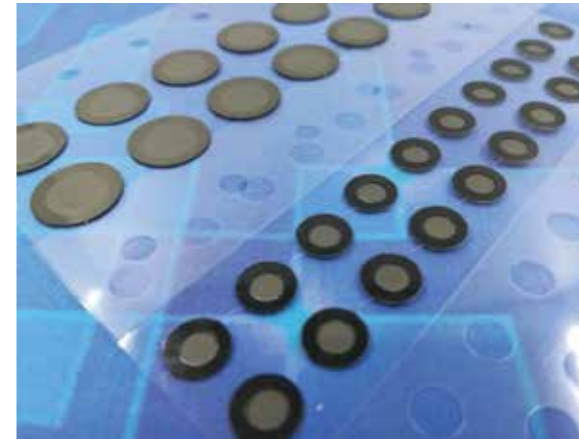
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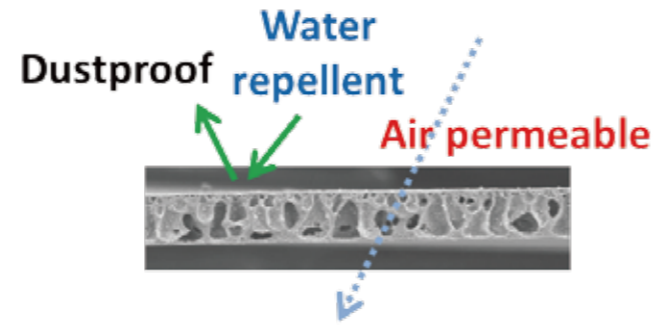
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Features

- Unique porous film provides air/sound permeability and water/dustproof function at the same time, which prevents inundation and contamination inside of the case.

- Perfect for a number of applications, and can be die cut and molded into various sizes and shapes for their sound, internal and external pressure control filters, mobile phones, smart phones, digital cameras and other devices.



Product Lines

Sound Permeable Filter for Mobile Devices

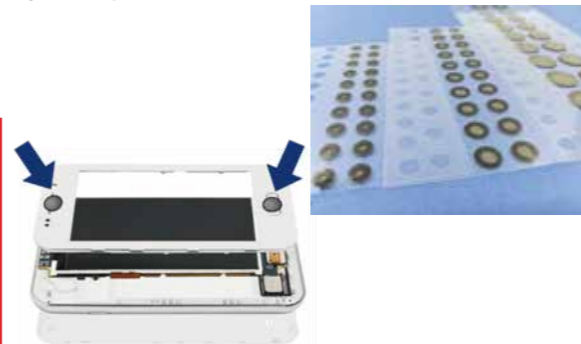
- Acoustic performance oriented product for microphones in mobile devices.
- Acoustic loss in frequency ranges of human voice (low frequency) is within 2dB.

Composition

Brand of waterproof tape can be chosen
PET film and PORON are available.

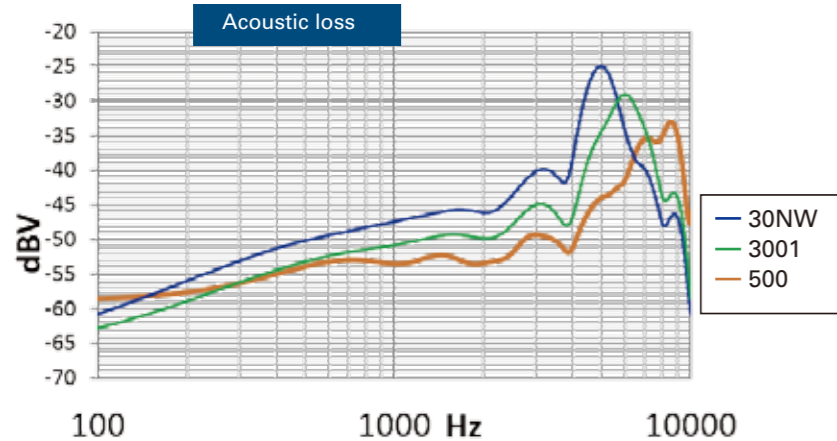
Waterproof tape
Waterproof film 30μ
PET film/PORON

The diagram shows a cross-section of the filter with three distinct layers: a top blue layer (waterproof tape), a middle light blue layer (waterproof film), and a bottom white layer (PET film/PORON).



Properties

Item	Unit	SEM3K30NW	SEM3K3001	For Reflow	For High Water Pressure
				SEMKKP24J	SEMKN500
Water Pressure	kPa Φ 6mm	30	40	30	550 (Φ 1.5mm)
Air Permeability	sec/100cm ²	12	11	0.3	5
Rupture Elongation	%	250	64	19/63	37/140



Test Method
Opening size: Φ 3.0mm
Machine conditions
Jig metal plate opening size: Φ 1.0mm
Distance (sound source to film): 50mm
Acoustic pressure: 94dB@1000Hz

Air Permeable Filter for Internal Pressure Control

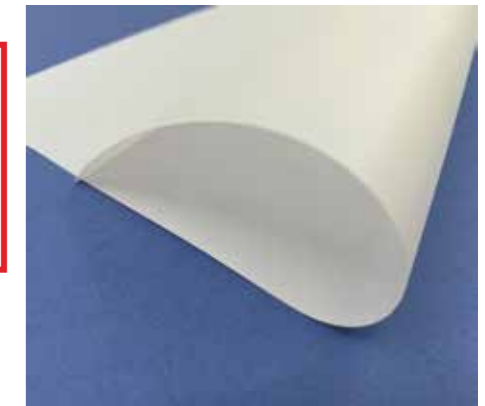
- Prevents damage of waterproof case, caused by internal pressure fluctuation.
- Product lines include 280°C heat-resistant filter.

Composition

Brand of waterproof tape can be chosen

Waterproof tape
Waterproof film
Micromesh } 70μ

The diagram shows a cross-section of the filter with three layers: a top blue layer (waterproof tape), a middle white layer (waterproof film), and a bottom grey layer (micromesh).



For heat Sealing

For automatic mounting

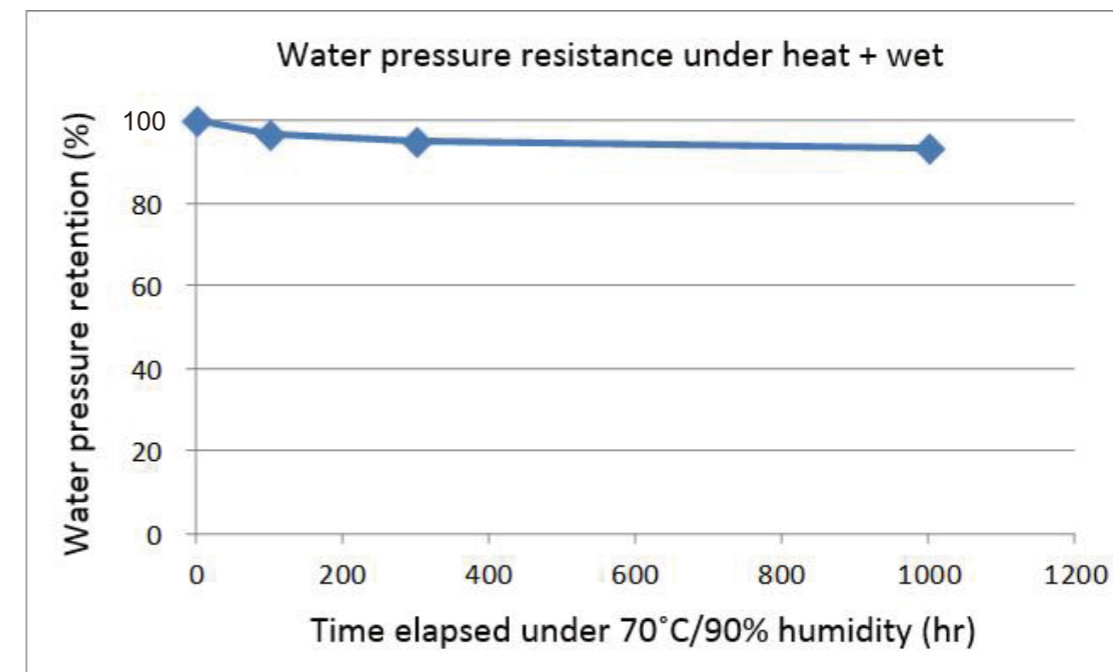
Waterproof film
Nonwoven fabric

The diagram shows a cross-section of the filter with two layers: a top blue layer (waterproof film) and a bottom white layer (nonwoven fabric).

Properties

Item	Unit	Properties				
		Oil-repellent	High Air	For High Water Pressure	For heat sealing	
		SEMKK4PT	SEMK4PTMP	SEMK4PTN	SEMKN550PT	SEMKK8PTP
Water Pressure	kPa	50↑	50↑	50↑	550	65
Air Permeability	sec/100cm ²	2	2	0.6	9	6
Rupture Elongation	%	40	40	40	60	50

Normal



*The figures given for the parameters of the film in the table are their respective measured values, not their guaranteed values.