



Original Life CO., LTD

GECOMAT

The good partner in your life



Original Life CO., LTD - GECOMAT

The leading brand of GECOMAT

Original Life CO., LTD has manufactured plastic net for more than fifty years. With the concept of manufacturing natural, healthy, safe and innovative products, we use breakthrough technology to apply GECOMAT to many industries. We try our best to improve quality in order to provide safe and healthy textile products to our customers.



- ✧ Flame-resistant textiles
- ✧ Non-toxic
- ✧ Smoke free
- ✧ High circulations of air
- ✧ High effects of dust collection

GECOMAT-

Application in Public Transportation

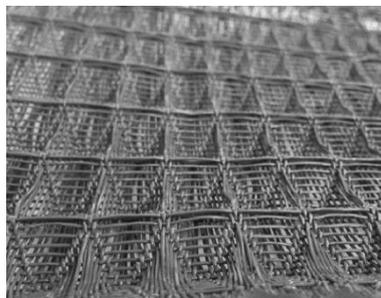
Original Life Eco-friendly Safe Retardant Filter is made of retardant material. You can use it with confidence.

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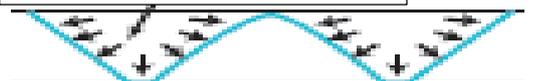
Fused functional factor in every fiber, our mat is easy to clean and reusable. There is no impact on its functions after washing. GECOMAT fiber can remove, settle, and resolve air pollutants by green energy in environment, such as solar, wind, water, and geothermal energy.

Three-dimensional conical structure



Three-dimensional cone sketch

Directions of wind



Three-dimensional cone plan sketch

Original Life develops three-dimensional woven structure of functional fiber. In addition to increasing surface area, it makes more than 90% fiber be vertical to air flows. Therefore, it can enhance filtration performance and reduce energy consumption. Also, our filter is durable without replacing.

Our products are made of PP. Considering safety of public transit, we manufacture safety-guaranteed Eco-friendly Safe Retardant Filter which is aeronautically safe.

Advantages of Eco-friendly Safe Retardant Filter

Glass fiber products are used to filter gas in most public transportation equipment. However, glass fiber is fragile and low abrasion-resistant, and torn easily. Because weather in subtropical and tropical regions is humid and muggy, the particulate matters in air adhere to filter materials easily. Consequently, glass fiber is blocked easily, resulting in overheat of machine caused by poor ventilation. However, this problem doesn't occur when using **Original Life** Eco-friendly Safe Retardant Filter. It's experimentally proved that three-dimensional conical structure can reduce pressure loss and won't deform easily. Besides, it can collect large amounts of dust and purify air. According to the experiment, under speed of 7.6 m/s, **Original Life** Eco-friendly Safe Retardant Filter can be reused after washing for eighteen times without performance reduction.

🎯 Test of filtration efficiency and pressure drop

Single layer		
Average synthetic dust weight arrestance	ASHRAE52.1-1992	38.7E%
Aerosol		ASHRAE52.1 (0.3-10 μm)
Initial pressure drop		159.5 Pa
Terminal pressure drop		250 Pa

Safe retardant material

Our products pass the test of toxic gas, horizontal burning, vertical burning, and smoke density.

🎯 Flammability

Toxic gas	PASSED 🏆
HVFAA 12Sec. Vertical Test	PASSED 🏆
HVFAA Horizontal Bunsen Burner Test	PASSED 🏆
Smoke Density	PASSED 🏆

Our Eco-friendly air purification filter products certificated by ROHS are non-toxic.
You can use it with confidence.



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Products you are interested in:	

Please describe your demands :
