



Original Life CO., LTD

GECOMAT

**The good partner in your life**

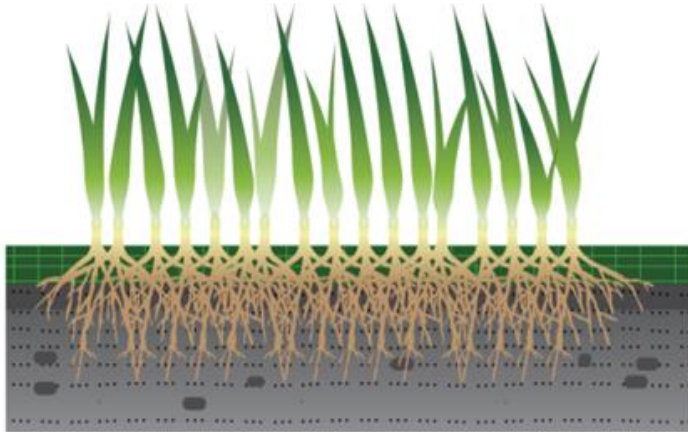


# Original Life CO., LTD - GECOMAT

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.

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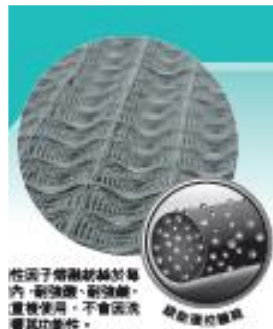


# GECOMAT –

## Application for Engineering

For Eco-friendly PP/PE Turf Reinforcement Mat (TRM), **Original Life** offers customized service to maximize its performance.

GECOMAT



Having years of experience, **Original Life** has completed the development of Eco-friendly TRM, which is flexible, aesthetic, and erosion-resistant. Compared to traditional erosion-resistant methods like riprap and concrete pavement, our mat is not only strength-improved but also aesthetic and flexible. **Original Life** offers various selections for designer to choose when planning slope stabilization projects.

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Three-dimensional conical structure

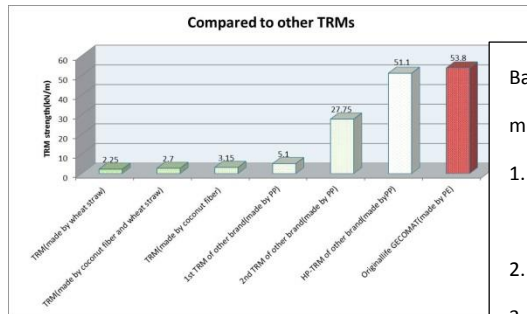


**Original Life** completes the development of Eco-friendly TRM, which features flexibility and long-term performance. It's made of PP (polypropylene) and PE (polyethylene), having three-dimensional conical structures. **Original Life** Eco-friendly TRM is woven by highly complicated method, of which the structure is uniformed. Therefore, our mat has high performance, and it is stable, durable, and function persistent.

Designed for high strength, our Eco-friendly TRM can stabilize slopes. What's more, with high space rate, it makes room for newborn vegetation root systems and stems to survive. Therefore, Eco-friendly TRM can capture and conserve more soil. It also allows rainwater to percolate through, so it can conserve surface water. Furthermore, covered by our Eco-friendly TRMs, topsoil in exposed area is protected, and won't be directly eroded by rainwater and surface runoff.

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## Strength of **Original Life** Eco-friendly TRM



## The effect of TRM

Basic slope stabilization method

1. Textile coverage system
2. Thin fiber textile
3. Erosion control
4. Riprap
5. Concrete pavement

Turf reinforcement mat  
Compared to traditional method, it enhances strength, durability, performance, function,

High performance turf reinforcement mat  
Enhance advantages of normal turf reinforcement mat

**Original Life** three-dimensional Eco-friendly PP/PE TRM is high-strength and stable, providing another choice for engineering design. Compared to TRM of other brand, **Original Life** TRM has higher strength. Its textile strength also exceed many traditional two-dimensional TRM.

Our TRM has larger space and more surface area because of three-dimensional design. In erosion area, our TRM can capture more soil, stabilizing soil effectively. For sure, root systems of vegetation growing on fiber will enhance abilities of erosion-resistant and soil-stabilization.

**Original Life** PP/PE TRM has the highest ranking of strength.

Applications to **Original Life** PP/PE TRM-

**Original Life** PP/PE TRM can apply to many situations listed below:

- \* High flow channel
- \* Dam protection
- \* River and costal bank stabilization
- \* Civil engineering enhancement and protection during transition period
- \* Slope surface stabilization
- \* Inlet and outlet protection
- \* Enhancement before vegetation grows

The characteristics of **Original Life** PP/PE TRM

Unique designed structure of **Original Life** PP/PE TRM has higher strength, which is suitable for slopes and erosion areas. **Original Life** PP/PE TRM is manufactured under standard process. We strictly control quality to maximize the performance of soil conservation and root system generation.

The properties of **Original Life PP/PE TRM** are listed in following table:

Property (physical)	Test Method	Imperial Units	Metric Units
Taiwan Manufactured Inputs %		100%	100%
Taiwan Manufactured %		100%	100%
Fiber Diameter	ASTM D2130	0.63 mm	0.025 inch
Tensile Strength	ASTM D6818	70.3x37.3 <u>kN/m</u>	5168x2741 <u>lbs/ft</u>
Elongation	ASTM D6818	23%	23%
Mass/Unit area	ASTM D6566	500 g/m <sup>2</sup>	14.7 <u>oz/yd<sup>2</sup></u>
Thickness	ASTM D6525	9.5 mm	0.374 inch
Surface	Calculated	450 M <sup>2</sup> /M <sup>3</sup>	136.9 ft <sup>2</sup> /ft <sup>3</sup>
Density	Calculated	63 Kg/M <sup>3</sup>	4 <u>lb/ft<sup>3</sup></u>
Percent Voids	Calculated	93.8 %	
Color	Visual	Green	
Light penetration	Roughly estimated	20-30%	



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