



PROPEX Pyramat 25

PROPEX® Pyramat® 25 turf reinforcement mat (HPTRM) is a three-dimensional, lofty, woven polypropylene geotextile designed for erosion control applications on steep slopes and vegetated waterways. Its matrix is composed of monofilament yarns featuring patented technology woven into a uniform configuration of resilient pyramid-like projections. The material exhibits high interlock and reinforcement capacity with soil and root systems and promotes seedling emergence. Pyramat 25 features a proprietary ultraviolet stabilizer package, high tensile strength, and superior hydraulic performance, to provide an expected design life up to 25 years.

It is engineered to mitigate fire risk and increase the resilience of wildfire prone areas using non-halogen fire retardant technology. Pyramat 25 is available in green or tan. Pyramat 25 conforms to the property values listed below¹ and is manufactured at a Solmax facility with ISO 9001:2015 and ISO 14001:2015 certifications. Solmax performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

Properties	Test Method	English	Metric
Origin of material			
% U.S. Manufactured		100%	100%
Physical Properties			
Mass/Unit Area ³	ASTM D6566	8.0 oz/sy	271 g/m ²
Thickness ²	ASTM D6525	0.25 in	6.4 mm
Light Pepertration (% Passing) ³	ASTM D6567	25%	
Color	Visual	Green or Tan	
Mechanical Properties			
Tensile Strength ²	ASTM D6818	2,000 x 1,800 lb/ft	29.2 x 26.3 kN/m
Elongation ²	ASTM D6818	20 x 20%	
Resiliency ²	ASTM D6524	70%	
Flexibility ³	ASTM D6575	0.195 in-lb	225,000 mg-cm
Endurance			
UV Resistance % Retained at 1,000 hrs ³	ASTM D4355	90%	
UV Resistance % Retained at 3,000 hrs ³	ASTM D4355	90%	
Fire Resistance			
Burn Rate	FMVSS 302	< 1 ft/min.	
Time to Extinguish	FMVSS 302	< 1 sec.	
Performance			
Velocity (Vegetated) ^{3, 5}	Large Scale	20 ft/s	6.1 m/s
Shear Stress (Vegetated) ^{3, 4}	Large Scale	12 lb/ft ²	575 Pa
Manning's n (Unvegetated) ^{3, 5}	Calculated	0.028	
Seedling Emergence ³	ASTM D7322	489%	
Roll Sizes		8.5 ft x 120 ft	2.6 m x 36.6 m

NOTES:

⁽¹⁾ The property values listed above are effective 05/01/2023 and are subject to change without notice. Values represent testing at time of manufacture.

⁽²⁾ Minimum average roll values (MARV) are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.

⁽³⁾ Typical Value

⁽⁴⁾ Maximum permissible velocity and shear stress has been obtained through vegetated testing programs featuring specific soil types, vegetation classes, flow conditions, and failure criteria. These conditions may not be relevant to every project nor are they replicated by other manufacturers. Please contact Solmax for further information.

⁽⁵⁾ Calculated as typical values from large-scale flexible channel lining test programs with a flow depth of 6 to 12 inches.

Solmax is not a design or engineering professional and has not performed any such design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation, or specification.

