

PRODUCT DATA SHEET

PYRAMAT®

PYRAMAT high performance turf reinforcement mat (HPTRM) is a three-dimensional, lofty, woven polypropylene geotextile that is available in green or tan which is specially designed for erosion control applications on steep slopes and vegetated waterways. The matrix is composed of polypropylene monofilament yarns **featuring X3® technology** woven into a uniform configuration of resilient pyramid-like projections. The material exhibits very high interlock and reinforcement capacity with both soil and root systems, demonstrates superior UV resistance, and enhances seedling emergence.

PYRAMAT conforms to the property values listed below¹ and is manufactured at a Propex facility having achieved ISO 9001:2000 certification. Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

PROPERTY	TEST METHOD	MARV ²	
		ENGLISH	METRIC
Physical			
Mass/Unit Area	ASTM D-6566	13.5 oz/yd ²	455 g/m ²
Thickness	ASTM D-6525	0.4 in	10.2 mm
Light Penetration (% Passing)	ASTM D-6567	10%	10%
Color	Visual	Green or Tan	
Mechanical			
Tensile Strength (Grab)	ASTM D-6818	4000 x 3000 lb/ft	58.4 x 43.8 kN/m
Elongation	ASTM D-6818	65% (max)	65% (max)
Resiliency	ASTM D-6524	80%	80%
Flexibility	ASTM D-6575	0.534 in-lb (avg)	615000 mg-cm (avg)
Endurance			
UV Resistance @ 6000 hours	ASTM D-4355	90%	90%
Performance			
Velocity ³ (Vegetated)	Large Scale	25 ft/sec	7.6 m/sec
Shear Stress ³ (Vegetated)	Large Scale	15 lb/ft ²	718 Pa
Manning's "n" ⁴ (Unvegetated)	Calculated	0.028	0.028
Seedling Emergence ⁴	ECTC Draft Method #4	296%	296%
Roll Sizes		8.5 ft x 90 ft	2.6 m x 27.4 m

NOTES

1. The property values listed are effective 08/2006 and are subject to change without notice.
2. MARV indicates minimum average roll value calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported.
3. 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 Propex for further information.
4. Calculated as typical values from large-scale flexible channel lining test programs with a flow depth of 6 to 12 inches.



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