



Pyramat[®] Turf Reinforcement Mat

Technical Data Sheet

Roll Sizes - 8.5 ft x 90 ft, 85 sq yd (2.6m x 27.4m, 8.44 sq m)

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).

PRODUCT TEST DATA		
Property	Test Method	MARV ²
Physical		
Mass Per Unit Area	ASTM D-6566	13.5 oz sq yd (457.7 g/m ²)
Thickness	ASTM D-6525	0.4 in (10.2 mm)
Light Penetration (% Passing)	ASTM D-6567	15% (Max)
Color	Visual	Green or Tan
Mechanical		
Tensile Strength (Grab)	ASTM D-6818	4000 x 3000 lbs/ft (58.4 x 43.8 kN/m)
Elongation	ASTM D-6818	40 x 35%
Resiliency	ASTM D-6524	80%
Flexibility	ASTM D-6575	.534 in/lbs (29.6 mg-cm) avg
Endurance		
UV Resistance @ 6000 hrs	ASTM D-4355	90%
UV Resistance @ 10000 hrs	ASTM D-4355	85%
Performance		
Velocity ³ (Fully Vegetated)	Large Scale	25 ft/sec (6.1 m/sec)
Velocity ³ (65-70% Vegetated)	Large Scale	16 ft/sec (4.9 m/sec)
Velocity ³ (20-30% Vegetated)	Large Scale	12 ft/sec (3.7 m/sec)
Shear Stress ³ (Fully Vegetated)	Large Scale	16 lbs sq ft (766 Pa)
Shear Stress ³ (65-70% Vegetated)	Large Scale	12 lbs sq ft (575 Pa)
Shear Stress ³ (20-30% Vegetated)	Large Scale	5 lbs sq ft (239 Pa)
Manning's "n" ⁴ (Unvegetated)	Calculated	0.028 (.028)
Seedling Emergence	ECTC Draft Method #4	296% (296%)

- 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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