



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). This product is NTPEP approved for AASHTO standards.

| MARV ² | | | |
|---|----------------------|-------------------------|-----------------------|
| PROPERTY | TEST METHOD | ENGLISH | METRIC |
| ORIGIN OF MATERIALS | | | |
| % U.S. Manufactured Inputs | | 100% | 100% |
| % U.S. Manufactured | | 100% | 100% |
| PHYSICAL | | | |
| Mass/Unit Area | ASTM D-6566 | 13.5 oz/yd ² | 457.7g/m ² |
| Thickness | ASTM D-6525 | 0.4 in | 10.2 mm |
| Light Penetration (% Passing) | ASTM D-6567 | 15% (Max) | 15% (Max) |
| 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 | 40 x 35% | 40 x 35% |
| Resiliency | ASTM D-6524 | 80% | 80% |
| Flexibility | ASTM D-6575 | 0.534 in-lb (avg) | 615,000 mg-cm (avg) |
| ENDURANCE | | | |
| UV Resistance % Retained 6000 hrs | ASTM D-4355 | 90% | 90% |
| UV Resistance % Retained 10000 hrs | ASTM D-4355 | 85% | 85% |
| PERFORMANCE | | | |
| Velocity ³ (Fully Vegetated) | Large Scale | 25 ft/sec | 7.6 m/sec |
| Shear Stress ³ (Fully Vegetated) | Large Scale | 16lb/ft ² | 766 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:

- The property values listed are effective 04/2011 and are subject to change without notice.
- 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.
- 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.
- 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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