PYRAMAT

EROSION CONTROL BLANKET

TITAN
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Pyramat® 75 high performance 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 75 features a proprietary ultraviolet stabilizer package, high tensile strength, and superior hydraulic performance, to provide an expected design life up to 75 years.

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
ORIGIN OF MATERIALS			
% US Manufactured		%	100
ENVIRONMENTAL IMPACT			
Carbon Footprint	GHG Protocol ISO 14064:2006 PAS2050:2011	kg CO2e/m2 (lbs CO2e/ft2)	2.7 (0.55)
PHYSICAL			
Mass/Unit Area[4]	ASTM D 6566	oz/sy (g/m²)	14.0 (475)
Thickness [2]	ASTM D 6526	in (mm)	0.40 (10.2)
Light Penetration (% Passing) [3]	ASTM D 6567	%	10
Color	Visual	Green or Tan	
MECHANICAL			
Tensile Strength [2]	ASTM D 6818	lbs/ft (kN/m)	4000 x 3000 (58.4 x 43.8)
Resiliency [2]	ASTM D 6524	%	80
Elongation [2]	ASTM D 6524	%	40 x 35
Flexibility [4]	ASTM D 6575	in-lb (mg-cm)	0.534 (616,154)
ENDURANCE			
UV Resistance % Retained @ 3,000hrs [4]	ASTM D 4355	%	90
UV Resistance % Retained @ 6,000hrs [4]	ASTM D 4355	%	90
UV Resistance % Retained @ 10,000hrs [4]	ASTM D 4355	%	85
PERFORMANCE			
Velocity (Vegetated) [4 5]	Large Scale	ft/sec (m/sec)	25 (7.6)
Shear Stress (Vegetated) [4 5]	Large Scale	lb/ft² (Pa)	16 (766)
Manning's n (Unvegetated) [4 6]	Calculated	0.028	
Seedling Emergence [4]	ASTM D 7322	%	619
Roll Sizes		ft (m) ft (m)	8.5 x 120 (2.6 x 36.6) 15.0 x 120 (4.6 x 36.6)

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. Maximum Average Roll Value (MaxARV), calculated as the typical plus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will meet to the value reported.
4. Typical average values shown.
5. 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 us for further information.
6. 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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Titan Environmental Containment | Titan Environmental USA

Toll free: 1-866-327-1957 | info@titanenviro.com | TitanEnviro.com