



## Product Data Sheet

### ■ Pyramat® HPTRM

Carthage Mills’ Pyramat® high performance turf reinforcement mat is a three-dimensional, lofty, woven polypropylene geotextile specifically designed for erosion control applications on steep slopes and vegetated waterways. The matrix, which is available in green or tan, is composed of polypropylene monofilament yarns 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 and demonstrates high tensile modulus.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> <b>Physical</b>			
Mass Per Unit Area	ASTM D 6566	475 g/m <sup>2</sup>	14.0 oz/yd <sup>2</sup>
Thickness	ASTM D 6525	12.7 mm	0.50 in
Light Penetration (% Passing)	ASTM D 6567	25%	
Color	-	Green, Tan	
<input type="checkbox"/> <b>Endurance</b>			
UV Resistance @ 3000 hrs	ASTM D 4355	90% @ 3000 hrs	
<input type="checkbox"/> <b>Mechanical</b>			
Tensile Strength	ASTM D 6818	45.2 x 29.2 kN/m	3100 x 2000 lb/ft
Tensile Elongation			
Resiliency	ASTM D 6524	80%	
Flexibility	ASTM D 6575	736,000 mg-cm (avg)	0.640 in-lbs (avg)
<input type="checkbox"/> <b>Performance</b>			
Shear Stress <sup>1</sup>	Large Scale Flume	575 N/m <sup>2</sup>	12 lb/ft <sup>2</sup>
Manning’s “n” <sup>2</sup>	Calculated	0.021	
Seedling Emergence <sup>3</sup>	ECTC Draft Method #4	-	-
<input type="checkbox"/> <b>Dimensional</b>			
Standard Roll Size / Packaging (Special sizes, packaging and fabrication are available.)	Measured (Typical)	2.59 m x 27.4 m 71.1 m <sup>2</sup> 39 kg 76.2 cm diameter	8.5 ft x 90 ft 85 yd <sup>2</sup> 86 lbs 30 in. diameter

<sup>1</sup> Maximum permissible 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 Carthage Mills for further information.

<sup>2</sup> Calculated as average values from large-scale flexible channel lining test programs with a flow depth of 6 to 12 inches. Contact Carthage Mills for Manning’s “n” values for flow depths greater than 12 inches.

<sup>3</sup> TBD – Calculated as the average plant height obtained with tall fescue grass seed in sand 14 days after seeding.

Unless otherwise noted, all properties reported are Minimum Average Roll Values (MARV), and are 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.

The properties reported above are effective 03/01/04 and are subject to change without notice.

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