

PYRAMAT®

PYRAMAT is manufactured at one of SI Corporation facilities that has achieved ISO-9002 certification for its systematic approach to quality. **PYRAMAT** high performance turf reinforcement mat is a three-dimensional, lofty, woven polypropylene geotextile specially designed for erosion control applications on steep slopes and vegetated waterways. The matrix 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. The TRM conforms to the property values listed below¹, which have been derived from quality control testing performed by one of SI Corporations GAI-LAP accredited laboratories:

MARV²

PROPERTY	TEST METHOD	ENGLISH	METRIC
Physical			
Mass/Unit Area	ASTM D5261	14 oz/yd ²	475 g/m ²
Thickness ⁴	ASTM D1777	0.5 in	12.7 mm
Resiliency ⁵	ASTM D1777	80 %	80 %
Ground Cover Factor ⁶	Light Proj. Analysis	75 %	75 %
Mechanical			
Grab Tensile Strength	ASTM D5035 ³	3,100 x 2,000 lb/ft	45.2 x 29.2 kN/m
Grab Elongation	ASTM D5035 ³	55% (max)	55% (max)
Grab Tensile Strength	ASTM D4595	3,200 x 2,200 lb/ft	46.7 x 32.1 kN/m
Grab Tensile Elongation	ASTM D4595	65% (max)	65% (max)
Secant Modulus @ 10% Elongation	ASTM D4595	7,500 x 6,700 lb/ft	109.5 x 98.5 kN/m
Endurance			
UV Resistance @ 3000 hrs	ASTM D4355	80%	80%
Roll Sizes			
		8.5 ft x 90 ft	2.59 m x 27.4 m

NOTES:

- ¹ The property values listed above are effective 9/6/2000 and are subject to change without notice.
- ² Values for machine and cross machine directions, respectively, under dry or saturated conditions. Minimum average roll values 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. Typical indicates mean or average of all test data.
- ³ Formerly test method ASTM D1682.
- ⁴ Modified ASTM D1777 using 6" Pressure Plate and 0.2 kPa
- ⁵ Resiliency defined as percent of original thickness retained after 3 cycles of a 100 psi load for 60 seconds followed by 60 seconds without load...thickness measured 30 measured after load removed by ASTM D1777.
- ⁶ Ground Cover Factor represents "% shade" from Lumite Light Projection Test.
- ⁷ Maximum permissible design values listed are based on short-term (0.50 hrs), vegetated data obtained at an independent hydraulics testing facility.

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