



ADS PP5-XGTR TURF REINFORCEMENT MAT GEOTEXTILE SPECIFICATION

Scope

This specification describes ADS PP5-XGTR Turf Reinforcement Mat.

Turf Reinforcement Mat Requirements

ADS PP5-XGTR is fully synthetic, UV stable Turf Reinforcement Mat (HP-TRM) manufactured by weaving continuous, synthetic thread elements by way of a proprietary (patent pending) process to form a lofty, three-dimensional pattern. PP5-XGTR is resistant to environmental and climatic conditions and provides high strength, durability and turf reinforcement performance.

ADS PP5-XGTR is manufactured under a quality assurance program to ensure a continuous distribution of fibers and consistent thickness. PP5-XGTR is constructed of UV stabilized, high strength synthetic yarns to be incorporated into turf and/or the soil matrix. For typical applications, the expected design life of PP5-XGTR is 50 years, however, may be less or indefinite. Verified index properties are provided in Table 1:

Turf Reinforcement Mat Properties

Table 1 - Specified Expected Values

Property	Test Method	Unit	M.A.R.V. (Minimum Average Roll Value)
Tensile Strength (MD) x (TD)	ASTM D6818	lbs/ft (kN/m)	4000 x 3000 (58 x 44)
Elongation (MD) x (TD)	ASTM D6818	%	25 x 20
Tensile Strength at 15% Strength	ASTM D6818	lbs/ft (kN/m)	3000 (44)
Initial Tangent Modulus (MD)	ASTM D6818	kip/ft (kN/m)	10.5 (12.8)
Initial Tangent Modulus (TD)	ASTM D6818	kip/ft (kN/m)	17.5 (21.3)
Mass Per Unit Area	ASTM D6566	oz/yd (g/m)	9.2 (312)
Thickness	ASTM D6525	in (mm)	.30 (8)
Light Penetration	ASTM D6567	% open	30
Water Absorption	ASTM D1117	-	N/A
Resiliency	ASTM D6524	%	95
Porosity	Computed	%	96
UV Stability	ASTM D4355	%	100% (500 hr)/90% (6000 hr)

Packaging

	Narrow	Wide
Roll Dimensions (W x L) - ft. (m)	8 x 112.5 (2.4 x 34.3)	12.0 x 180 (3.7 x 54.9)
Coverage - yd ² (m ²)	100 (83.6)	240 (200.7)

PP5-XGTR is a woven product, thus no netting is utilized in the construction of the material.

