

TENAX MULTIMAT

Type: 100 Turf Reinforcement Mats

TENAX **MULTIMAT 100** ² is a polypropylene erosion control geomats, designed for protection and growing of grass on slopes subject to surface erosion. **MULTIMAT 100** is a three dimensional mat composed by extruded and bi-oriented polypropylene grids, laid one upon each other and tied up by means of black polypropylene yarn. The three dimensional structure of the mat shelters the layer of top soil and anchors the growing roots of the planted seeds to obtain one block very resistant to the rain drop run off and soil movement. TENAX **MULTIMAT 100** can be easily installed.

Typical applications

Roadway ditches, slope protection, storm and irrigation channels, shorelines, landfill covers

PACKAGING DATA PROPERTIES	UNITS	NOMINAL VALUE
ROLL DIMENSIONS (WIDTH X LENGTH)	m (ft)	2.2 x 30.5 (7.2 x 100)
ROLL AREA	m ² (yd ²)	67 (80)
ESTIMATED ROLL DIAMETER	cm (in)	78 (30.5)
ESTIMATED ROLL WEIGHT	kg (lb)	24 (53)

PERFORMANCE PROPERTIES	TEST METHOD	UNIT	TYPICAL ROLL VALUE
PERMISSIBLE VELOCITY			
PRODUCT ONLY	FLUME TEST ¹	m/s (ft/s)	4.0 (13)
30 MINUTE, VEGETATED	FLUME TEST ¹	m/s (ft/s)	5.5 (18)
60 MINUTE, VEGETATED	FLUME TEST ¹	m/s (ft/s)	3.35 (11)
PERMISSIBLE SHEAR STRESS			
PRODUCT ONLY	FLUME TEST ¹	kN/m ² (lbs/ft ²)	0.29 (6)
30 MINUTE, VEGETATED	FLUME TEST ¹	kN/m ² (lbs/ft ²)	0.475 (10)
60 MINUTE, VEGETATED	FLUME TEST ¹	kN/m ² (lbs/ft ²)	0.29 (6)

MECHANICAL PROPERTIES	TEST METHOD	UNIT	TYPICAL ROLL VALUE	
			MD	TD
TENSILE STRENGTH	ASTM D 4595	kN/m (lbs/ft)	10 (685)	15 (1027)
THICKNESS	ASTM D 5199	mm (in)	17 (0.67)	
MASS/ UNIT AREA	ASTM D 5261	g/m ² (oz/yd ²)	320 (9.4)	
UV STABILITY	ASTM D 4355	% strength retained	90	

NOTES:

- 1) Flume test performed at an independent laboratory-data and details available upon request.
- 2) Multimatt TRM 100 meets requirements of FHWA FP-03 TRM categories Types 5.A, B, and C.



The TENAX Laboratory has been operational since 1980 and has been continuously improved with the purpose of assuring unequalled technical development of the products and accurate Quality Control. The TENAX Laboratory can perform mechanical, hydraulic and durability tests, according to the most important international standards like ISO, CEN, ASTM, DIN, BSI, UNI.



4800 East Monument Street
Baltimore, MD 21205
(T) 1-800-356-8495
(F) 1-877-836-2987
www.tenaxus.com

