

MultiMat R 20, 35, 55 Geomat

Tenax MultiMat R series are geomats designed for the protection and growth of grass on steep slopes subject to erosion and for avoiding the sliding of soil. Tenax MultiMat are three dimensional mats composed by extruded and bi-oriented polypropylene grids, with a layer of polyester high tenacity geogrid layer as reinforcement. The grids layers are sewn together with a black polypropylene yarn. The three dimensional structure is purposely engineered for trapping a layer of topsoil, thus avoiding rainfall erosion by both sheltering the surface against the impact of raindrops and by restricting the movement of soil particles. The high strength geogrid allows the anchoring of the bigger material (cobble & rocks) and the veneer stability. The product can be easily installed and it does not require skilled personnel.

Typical Applications

Consolidation, stabilization, growing of grass on steep slopes and veneer stability

PHYSICAL CHARACTERISTICS	TEST METHOD	R 20, 35, 55
Polymer Type		Polypropylene - Polyester
Structure		Three Dimensional Reinforced Geomat
Color		Black
Packaging	ISO 10320	Rolls with ID Label
Carbon Black Content	ASTM D4218	Yes

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	R 20	R 35	R 55	NOTES
Thickness	ISO 9863	in (mm)	.71 (18)	.71 (18)	.71 (18)	c
Roll Width		ft (m)	7.2 (2.20)	7.2 (2.20)	7.2 (2.20)	c
Roll Length		ft (m)	98.43 (30)	98.43 (30)	98.43 (30)	c

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	MULTIMAT R 20		NOTES
			MD	TD	
Peak Tensile Strength	ISO 10319	Lbs/ft (kN/m)	1370.1 (20)	1370.1 (20)	a, b, d
Yield Point Elongation	ISO 10319	%	12	12	a, b, c, e

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	MULTIMAT R 35		NOTES
			MD	TD	
Peak Tensile Strength	ISO 10319	Lbs/ft (kN/m)	2398.9 (35)	1370.1 (20)	a, b, d
Yield Point Elongation	ISO 10319	%	12	12	a, b, c, e

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	MULTIMAT R 55		NOTES
			MD	TD	
Peak Tensile Strength	ISO 10319	Lbs/ft (kN/m)	3769.7 (55)	1370.1 (20)	a, b, d
Yield Point Elongation	ISO 10319	%	12	12	a, b, c, e

Notes

- a MD: machine direction (longitudinal to the roll)
- b TD: transverse direction (across roll width)
- c Typical values
- d Minimum values
- e Tolerance ±2

The Tenax laboratory has been operational since 1980 and has continuously improved with the purpose of assuring unequalled technical development of products and accurate Quality Control.

The Tenax Laboratory can perform mechanical tests, hydraulic tests and durability tests, according to the most detailed and important international standards like: ISO, CEN, ASTM, DIN, BSI, UNI.

