

TENAX MS

Type: 500

Multilayer bi-oriented geogrids



TENAX MS geogrids are the latest development in geogrid technology. TENAX MS geogrids are composed of several layers of extruded bi-oriented polymer meshes. The layers are rolled and stitched together without superimposing the meshes. The many strands TENAX MS geogrids improve the geogrid interlocking capacity, distribute applied loads, and prevent localized shear failure. TENAX MS geogrids have high tensile modulus, superior interlock capacity and high pull-out resistance.

Typical applications

Base reinforcement; reduction of required structural fill; load distribution; subbase separation.

PHYSICAL CHARACTERISTICS	TEST METHOD	UNIT	DATA	NOTES
STRUCTURE			LAYERS OF BI-ORIENTED GEOGRIDS SEWN TOGETHER	
MESH TYPE			RECTANGULAR APERTURES	
STANDARD COLOR			BLACK	
POLYMER TYPE			POLYPROPYLENE	
CARBON BLACK CONTENT	ASTM D4218		0.5%	
PACKAGING	ISO 10320		ROLLS IN POLYETHYLENE BAGS WITH LABEL	

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	MS 500	NOTES
NUMBER OF LAYERS		-	5	-
APERTURE SIZE MD		mm	60	b,d,e
APERTURE SIZE TD		mm	70	b,d,e
OPEN AREA		%	70	f
ROLL WIDTH		m	4.50	b
ROLL LENGTH		m	50.0	b
ROLL DIAMETER		m	0.47	b
ROLL VOLUME		m ³	1.00	b
GROSS ROLL WEIGHT		kg	84.5	b

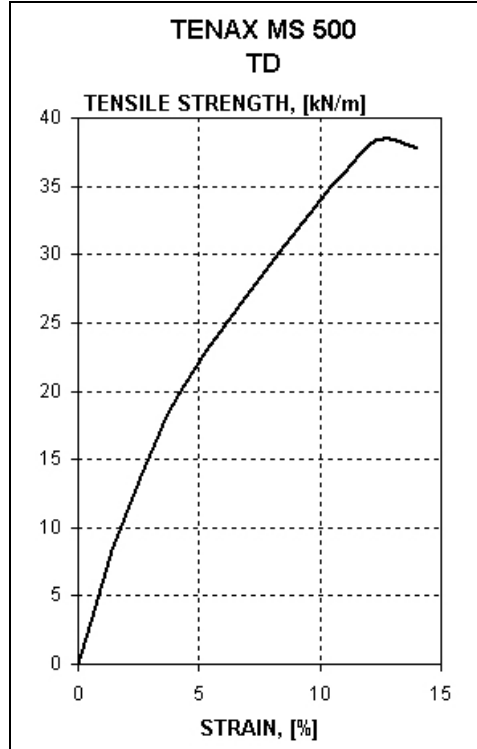
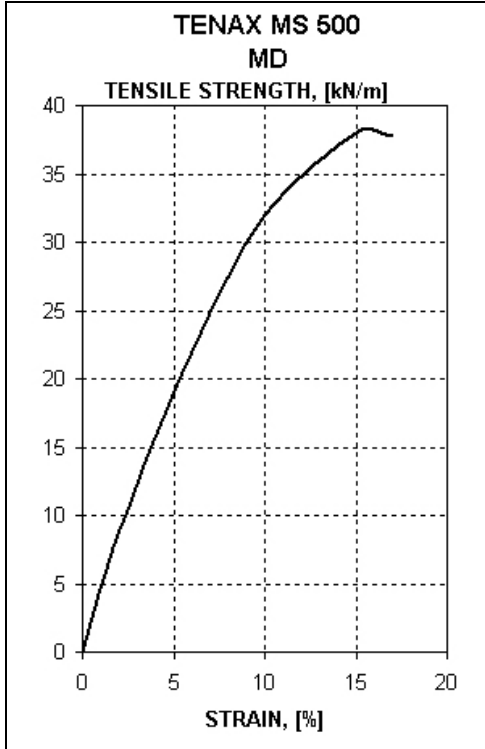
TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	MS 500		NOTES
			MD	TD	
STRENGTH AT 2% STRAIN	ISO 10319	kN/m	8.0	10.0	a,c,e
STRENGTH AT 5% STRAIN	ISO 10319	kN/m	16.0	19.6	a,c,e
PEAK TENSILE STRENGTH	ISO 10319	kN/m	35.0	35.0	a,c,e
YIELD POINT ELONGATION	ISO 10319	%	15.0	12.0	b,c,e
JUNCTION STRENGTH	GRI-GG2	kN/m	31.5	31.5	a,e

NOTES:

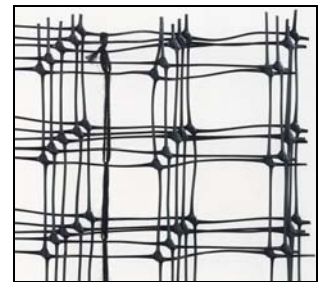
- a) 95% lower confidence limit values, ISO 2602
- b) Typical values
- c) Tests performed using extensometers
- d) Single layer dimension
- e) MD: machine direction (longitudinal to the roll)
TD: transverse direction (across roll width)
- f) Minimum values



Typical Tensile Characteristics



GEOGRID TYPE:
TENAX MS 500



The TENAX Laboratory has been operational in 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.

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