

TENAX GT

Type: **220 - 330 - 440**

Geogrid - geotextile geocomposites



TENAX **GT** are polypropylene geocomposites especially designed for soil stabilisation and reinforcement applications. The TENAX **GT** geocomposites are manufactured by bonding a TENAX **LBO SAMP** geogrid to a nonwoven polypropylene geotextile. TENAX **GT** geocomposites feature superior high tensile strengths and modulus, excellent resistance to construction damages and environmental exposure. The TENAX **GT** geogrid allows strong mechanical interlock with the soil being reinforced, while the geotextile provides separation and filtration without preventing the soil-geogrid interlock.

Typical applications

Base reinforcement; reduction of required structural fill; load distribution; reduction of mud pumping; subgrade stabilization; embankment and slope stabilization; asphalt reinforcement.

PHYSICAL CHARACTERISTICS	TEST METHOD	UNIT	DATA	NOTES
STRUCTURE			BI-ORIENTED GEOGRIDS	
MESH TYPE			RECTANGULAR APERTURES	
STANDARD COLOR			BLACK	
POLYMER TYPE			POLYPROPYLENE	
CARBON BLACK CONTENT	ASTM D4218		2.0%	
STRUCTURE			BI-ORIENTED GEOGRIDS	

GEOTEXTILE PHYSICAL CHARACTERISTICS	TEST METHOD	UNIT	DATA	NOTES
MASS PER UNIT AREA	ISO 9864	g/m ²	140	a
OPENING SIZE	ISO 12956	mm	0.07	a

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	GT 220	GT 330	GT 440	NOTES
MASS PER UNIT AREA	ISO 9864	g/m ²	410	560	710	b
ROLL WIDTH		m	3.8	3.8	3.8	b
ROLL LENGTH		m	50	50	50	b
ROLL DIAMETER		m	0.44	0.50	0.58	b
ROLL VOLUME		m ³	0.76	0.98	1.30	b
GROSS ROLL WEIGHT		kg	79.3	108.0	142.5	b

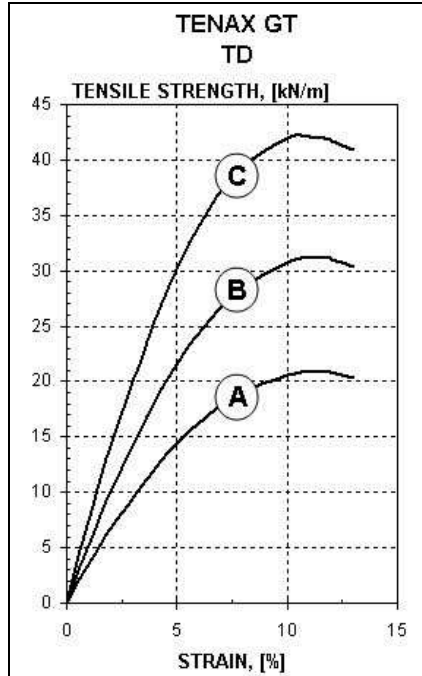
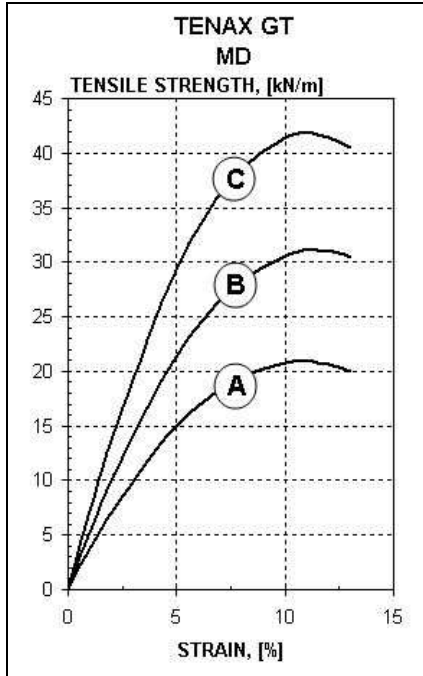
TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	GT 220		GT 330		GT 440		NOTES
			MD	TD	MD	TD	MD	TD	
STRENGTH AT 2% STRAIN	ISO 10319	kN/m	7.0	7.0	10.5	10.5	14.0	15.0	b,c,d
STRENGTH AT 5% STRAIN	ISO 10319	kN/m	14.0	14.0	21.0	21.0	28.0	30.0	b,c,d
PEAK TENSILE STRENGTH	ISO 10319	kN/m	20.0	20.0	30.0	30.0	40.0	40.0	a,c,d
YIELD POINT ELONGATION	ISO 10319	%	11.0	11.0	11.0	11.0	11.0	11.0	b,c,d

NOTES:

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

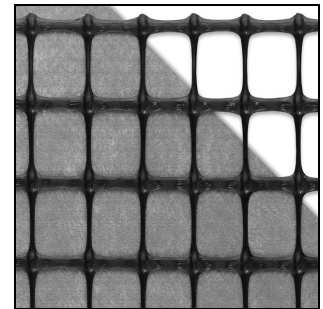


Typical Tensile Characteristics



GEOGRID TYPE:

- A = TENAX **GT 220**
- B = TENAX **GT 330**
- C = TENAX **GT 440**



0799-CPD-25



The TENAX Laboratory has been created 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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