

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 D1603 | | 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 | 790 | 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 | 156.5 | b |

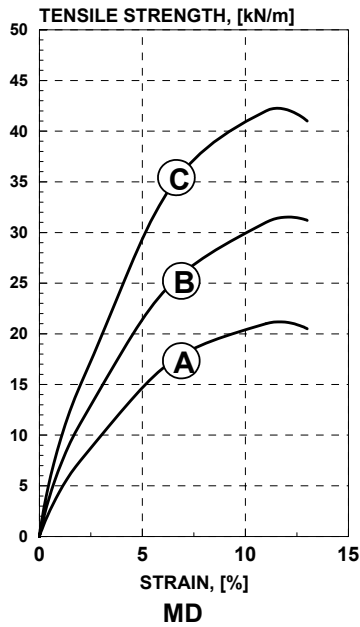
| TECHNICAL CHARACTERISTICS | TEST METHOD | UNIT | GT 220 | | GT 330 | | GT 440 | | NOTES |
|---------------------------|-------------|------|--------|------|--------|------|--------|------|-------|
| | | | MD | TD | MD | TD | MD | TD | |
| STRENGTH AT 2% STRAIN | ISO 10319 | kN/m | 7.0 | 7.0 | 10.5 | 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:

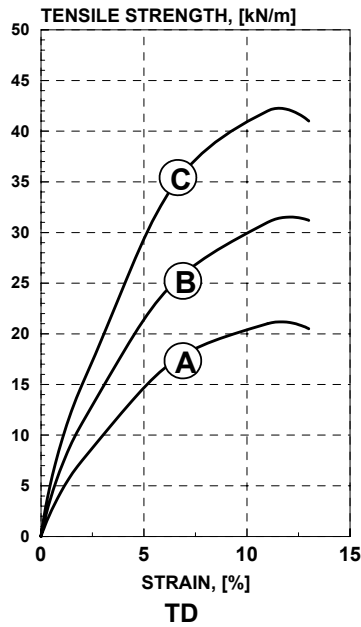
- a) 95% lower confidence limit values, ISO 2602
- b) Typical values
- c) Tests performed using extensometers
- d) MD: machine direction (longitudinal to the roll)
TD: transverse direction (across roll width)

Typical Tensile Characteristics

TENAX GT

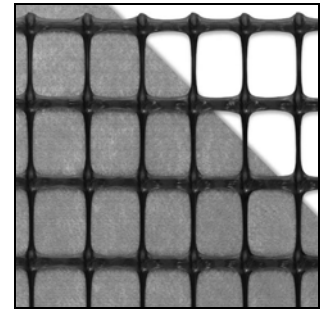


TENAX GT



GEOGRID TYPE:

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



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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