

# TENAX TDP

Type: **700/140/1**  
**1000/140/1**  
**1250/140/1**

Geocomposite



The TENAX **TDP** geocomposites are a combination of drainage cusped geonet and one geotextile\*. The combination of geotextile (filtering action) and cusped geonet (drainage and protection) offers a complete system of “filter-drainage-protection”.

## Typical applications

Waste disposals; underground structures; retaining walls; ground channels; road foundations; landfill capping.

| PHYSICAL CHARACTERISTICS | TEST METHOD | UNIT | TDP 700/140/1 | TDP 1000/140/1 | TDP 1250/140/1 | NOTES |
|--------------------------|-------------|------|---------------|----------------|----------------|-------|
| GEONET POLYMER           |             |      | HDPE          | HDPE           | HDPE           |       |
| GEOTEXTILE POLYMER       |             |      | PP            | PP             | PP             |       |
| U.V. STABILIZER          |             |      | carbon black  | carbon black   | carbon black   |       |

| DIMENSIONAL CHARACTERISTICS | TEST METHOD | UNIT             | TDP 700/140/1 | TDP 1000/140/1 | TDP 1250/140/1 | NOTES |
|-----------------------------|-------------|------------------|---------------|----------------|----------------|-------|
| THICKNESS at 20 kPa         | ISO 9863    | mm               | 6.5           | 7.0            | 11.0           | a     |
| UNIT WEIGHT                 | ISO 9864    | g/m <sup>2</sup> | 840           | 1140           | 1390           | a     |
| ROLL WIDTH                  |             | m                | 2.10          | 2.10           | 2.0            | a     |
| ROLL LENGTH                 |             | m                | 40.0          | 40.0           | 25             | a     |
| ROLL DIAMETER               |             | m                | 0.60          | 0.65           | 0.65           | a     |
| ROLL VOLUME                 |             | m <sup>3</sup>   | 0.70          | 0.88           | 0.85           | a     |
| ROLL GROSS WEIGHT           |             | kg               | 71.0          | 95.0           | 70.0           | a     |

| TECHNICAL CHARACTERISTICS | TEST METHOD | UNIT              | TDP 700/140/1 | TDP 1000/140/1 | TDP 1250/140/1 | NOTES |
|---------------------------|-------------|-------------------|---------------|----------------|----------------|-------|
| HYDRAULIC FLOW RATE       |             |                   |               |                |                |       |
| i=1 $\sigma_v = 20$ kPa   | ISO 12958   | m <sup>2</sup> /s | 2.20E-03      | 2.30E-03       | 5.50E-03       | a,b,c |
| i=1 $\sigma_v = 100$ kPa  | ISO 12958   | m <sup>2</sup> /s | 2.10E-03      | 2.20E-03       | 5.20E-03       | a,b,c |
| i=1 $\sigma_v = 200$ kPa  | ISO 12958   | m <sup>2</sup> /s | 2.00E-03      | 2.10E-03       | 5.00E-03       | a,b,c |
| i=1 $\sigma_v = 500$ kPa  | ISO 12958   | m <sup>2</sup> /s | 1.70E-03      | 1.80E-03       | 2.40E-03       | a,b,c |
| TENSILE STRENGTH          | ISO 10319   | kN/m              | 11            | 12             | 13             | a,b   |
| ELONGATION AT PEAK        | ISO 10319   | %                 | 50            | 50             | 60             | a,b   |

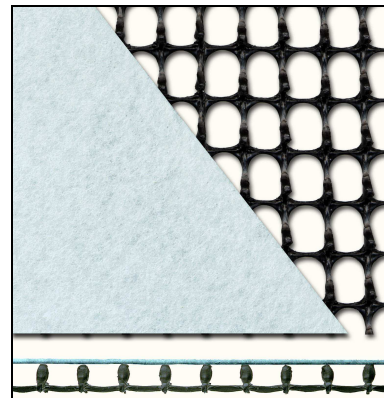
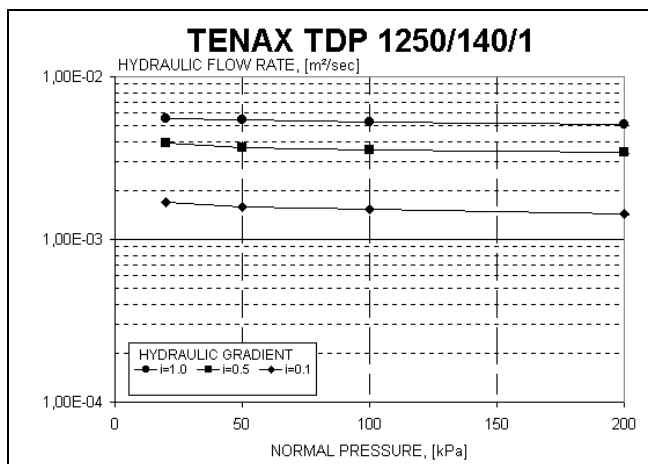
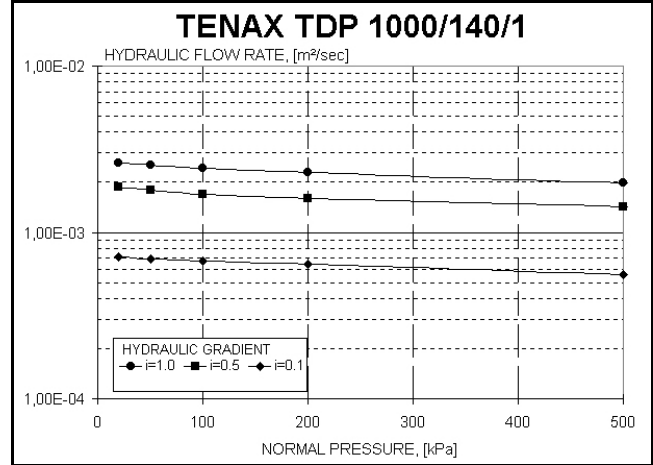
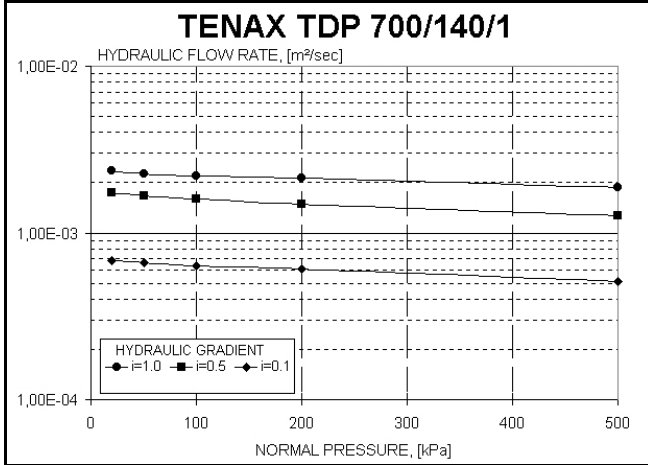
| GEOTEXTILE CHARACTERISTICS | TEST METHOD | UNIT             | TDP 700/140/1 | TDP 1000/140/1 | TDP 1250/140/1 | NOTES |
|----------------------------|-------------|------------------|---------------|----------------|----------------|-------|
| MASS PER UNIT WEIGHT       | ISO 9864    | g/m <sup>2</sup> | 140           | 140            | 140            | a     |
| OPENING SIZE               | ISO 12956   | mm               | 0.07          | 0.07           | 0.07           | a     |

### NOTES:

- a) Typical values
- b) Longitudinal direction
- c) 2mm HDPE liner boundary condition
- (\*) Properties may vary upon specific geotextiles used



## Typical Hydraulic Characteristics



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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