

Terram Standard Geotextiles are nonwoven geotextile manufactured using advanced bico technology from UV stabilised virgin polyolefin that have been thermally bonded to provide high tensile strength and excellent hydraulic characteristics.

| PROPERTIES                            | TEST METHOD  | UNITS              | MEAN VALUE<br>(APPLIED TOLERANCE VALUE) |                 |                 |                 |                 |                |                 |                  |                  |
|---------------------------------------|--------------|--------------------|-----------------------------------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|------------------|------------------|
|                                       |              |                    | T700                                    | T900            | T1000           | T1300           | T1500           | T2000          | T3000           | T4000            | T4500            |
| MECHANICAL                            |              |                    |                                         |                 |                 |                 |                 |                |                 |                  |                  |
| Grab Tensile Strength                 | (ASTM D4632) | N                  | 500<br>(-85)                            | 600<br>(-100)   | 660<br>(-100)   | 900<br>(-150)   | 970<br>(-150)   | 1550<br>(-275) | 1600<br>(-280)  | 2050<br>(-410)   | 2550<br>(-410)   |
| Grab Elongation                       | (ASTM D4632) | %                  | 60<br>(±20)                             | 60<br>(±20)     | 60<br>(±20)     | 60<br>(±20)     | 60<br>(±20)     | 60<br>(±20)    | 60<br>(±20)     | 60<br>(±20)      | 60<br>(±20)      |
| Trapezoidal Tear Strength             | (ASTM D4533) | N                  | 250<br>(-60)                            | 275<br>(-80)    | 300<br>(-70)    | 410<br>(-100)   | 470<br>(-160)   | 650<br>(-160)  | 690<br>(-160)   | 860<br>(-200)    | 1100<br>(-200)   |
| Static Puncture Strength              | (ASTM D6241) | N                  | 1050<br>(-105)                          | 1350<br>(-135)  | 1500<br>(-150)  | 2000<br>(-200)  | 2250<br>(-225)  | 2750<br>(-275) | 3250<br>(-325)  | 4300<br>(-430)   | 5350<br>(-535)   |
| HYDRAULIC                             |              |                    |                                         |                 |                 |                 |                 |                |                 |                  |                  |
| Permittivity                          | (ASTM D4491) | s <sup>-1</sup>    | 2.60                                    | 2.10            | 2.00            | 1.60            | 1.50            | 1.30           | 1.10            | 0.90             | 0.64             |
| Permeability (H <sub>50</sub> )       | (ASTM D4491) | l/m <sup>2</sup> s | 130<br>(-40)                            | 105<br>(-30)    | 100<br>(-30)    | 80<br>(-25)     | 75<br>(-25)     | 65<br>(-20)    | 55<br>(-15)     | 45<br>(-15)      | 35<br>(-10)      |
| Opening Size O <sub>90</sub> (A.O.S.) | (ASTM D4751) | mm                 | 0.294<br>(±30%)                         | 0.206<br>(±30%) | 0.208<br>(±30%) | 0.148<br>(±30%) | 0.143<br>(±30%) | 0.11<br>(±30%) | 0.081<br>(±30%) | <0.075<br>(±30%) | <0.075<br>(±30%) |
| UV Resistance @500 Hrs                | (ASTM D4355) | %                  | ≥ 70                                    | ≥ 70            | ≥ 70            | ≥ 70            | ≥ 70            | ≥ 70           | ≥ 70            | ≥ 70             | ≥ 70             |
| PHYSICAL (Typical Value)              |              |                    |                                         |                 |                 |                 |                 |                |                 |                  |                  |
| Thickness @ 2kPa                      | (ASTM D5199) | mm                 | 0.55                                    | 0.60            | 0.65            | 0.75            | 0.82            | 0.92           | 1.25            | 1.30             | 1.55             |
| ROLL DIMENSIONS                       |              |                    |                                         |                 |                 |                 |                 |                |                 |                  |                  |
| Width                                 |              | m                  | 4.5                                     | 4.5             | 4.5             | 4.5             | 4.5             | 4.5            | 4.5             | 4.5              | 4.5              |
| Length                                |              | m                  | 150                                     | 150             | 100             | 100             | 100             | 100            | 100             | 50               | 50               |
| Weight                                |              | kg                 | 65                                      | 83              | 58              | 75              | 83              | 100            | 120             | 80               | 95               |

- Composition** - Polypropylene & Polyethylene.
- Durability** - Predicted to be durable for more than 100 years in Natural soils with a range of pH 4-9 and soil temperatures ≤ 25 °C.
- Chemical Resistance** - Resistant to naturally occurring soil alkalis. Resistant to all naturally occurring soil acids. (i.e. to acids of pH ≥ 2).
- Exposure to Sunlight** - The product is delivered in colored polyethylene wrappers to protect it from the harmful effects of ultra-violet rays: it is recommended that it remains wrapped until it is to be used. The unwrapped product shall be completely covered within 30 days after installation to avoid UV radiation exposure.
- Note** - The values given are average values obtained in our laboratories and in testing institutes. The right is reserved to make changes without notice at any time.

### Markets

Highways  
Coastals  
Landfill  
Landscaping

### Application Function

Paved and unpaved roads, Sub-surface drainage, Culverts and outfalls  
Irrigation and sewerage, Reservoir and river shores, Dam and canal bunds  
Geomembrane protection, Filter separators  
Weed and root barrier, Cycle ways and footpaths, Car parks and hard stands

Geotextiles  
Geocomposites  
Geocells  
Geonets



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