



# CTM Technical Textiles Ltd.

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## Product Data Sheet – CTM Uniaxial Geogrids

CTM- GGU Geo grid is Uni-axial geo grid composed of high tenacity polyester (PET) multifilament yarn with high molecular weight and low carboxyl end group. This Geo grid is woven and coated with PVC to give better long term design strength in reinforcement of granular road base and sub-base applications. CTM geo grid is inert to biological and chemical degradation. They are resistant to natural encountered alkalis, acids and other chemicals. These Grids have different applications like Retaining Walls, Steep slopes, precast modular block walls, embankments on soft soils, waste containment applications.

### CTM GGU Uni-axial Geo grids - CTM GGU 70

| Property   | Test Method           | Unit          | CTM GGU 70                                 |                   |                  |
|--|-----------------------|---------------|--|-------------------|------------------|
| <b>Peak Tensile Strength ( Minimum Average Roll Values - MARV)</b> |                       |               |  |                   |                  |
| Machine Direction  | ASTM-6637             | lbs/ft (KN/m) | 4800 (70)                                  |                   |                  |
| <b>Reduction Factors</b>   |                       |               |  |                   |                  |
| Creep-RF <sub>CR</sub> @ 20° C & 100 Years                         | ASTM D 6992/ISO 10319 |               | 1.49                                       |                   |                  |
| Installation Damage-RF <sub>ID</sub> Silty Sand – Grade type III   | ASTM D 5818/ISO 10319 |               | 1.11                                       |                   |                  |
| Durability-RF <sub>D</sub> 4<pH<9                                  | *                     |               | 1.15                                       |                   |                  |
| Creep Limited Strength   | ASTM D 5262 / D 6992  |               | 3221                                       |                   |                  |
| LTDS - 100 years, Sand, 4<pH<9                                     |                       | lbs/ft (KN/m) | 2523 (36.80)                               |                   |                  |
| Pullout Interaction Coefficient, C <sub>i</sub>                    | ASTM-6706             |               | 0.8  |                   |                  |
| <b>Physical Properties</b>   |                       |               |  |                   |                  |
| Colour   |                       |               | Black                                      |                   |                  |
| Coating Type   |                       |               | PVC  |                   |                  |
| Yarn Type  |                       |               | High Tenacity Low Shrinkage Polyester Yarn |                   |                  |
| Roll Dimension (Width X Length)                                    |                       |               | Feet                                       | Yard              | Meter            |
|  |                       |               | 4 X 229                                    | 1.31 X 76.33      | 1.2 X 70         |
|  |                       |               | 8 X 229                                    | 2.62 X 76.33      | 2.4 X 70         |
| Roll Area  |                       |               | Feet <sup>2</sup>                          | Yard <sup>2</sup> | Mtr <sup>2</sup> |
|  |                       |               | 916 / 1832                                 | 100 / 200         | 84 / 168         |

\* Test values are evaluated by TRI (USA) Lab.

- Standard tolerances and technical developing change reserve
- Warranty: CTM Technical Textiles Ltd warrants our products to be free from defects in material and workmanship when delivered to the customer end. The products meet published specs. If for any reason the product is found to be defective and or not up to the standard CTM Technical Textiles Ltd will replace the product without charge. Replacing the product are the buyers sole remedy for a breach and CTM will not be liable for any consequential damage attributed to a defective Grid. This warranty is given in lieu of all other warranties, express or implied, including the implied warranty of merchantability or fitness for a particular purpose. There are no warranties, which extend beyond the description provided herein. CTM assumes no liability for the accuracy or completeness of this information or for the ultimate use by the customer.
- This document should not be construed as engineering advice.
- CTM Geo grid is registered name of CTM Technical Textiles Ltd.