

CHECKMATE FLEXGRID™ MICROMESH MX1

Checkmate Micromesh MX series is a reinforcement geogrid made of precision knitted Polyester (PET) with black PVC saturation coating. This Micromesh provides high positive mechanical interlock with the soils and also maintains high permeability. Micromesh can be regarded as an isotropic bi-axial geogrid with equal Tensile strength in both machine (MD) and cross machine (XD) directions. In addition the Micromesh series is flexible, enhances vegetative growth along with UV stability and long-term durability. Micromesh MX bi-axial geogrids are used as a face wrap material for steepened slopes and provide excellent surface erosion protection. The Micromesh MX series is engineered to be mechanically and chemically stable, in both harsh construction installation phase and in aggressive soil environments (pH level 2.0 – 12.0). Flexgrids are biologically unaffected by soil micro-organisms. A black PVC saturation coating provides further chemical, mechanical, as well as ultraviolet protection.

| TENSILE PROPERTIES | | TEST METHOD | UNIT | MICROMESH MX1 |
|--|----|-------------|--|------------------------------------|
| Ultimate Tensile Strength ⁽¹⁾ | MD | ASTM D 6637 | Lb/ft /kN/m | 2,056 / 30.0 |
| | XD | ASTM D 6637 | Lb/ft/kN/m | 2,056 / 30.0 |
| Tear Strength | MD | ASTM D 4533 | Lb/ft /kN/m | 411 / 6.0 |
| | XD | ASTM D 4533 | Lb/ft /kN/m | 411 / 6.0 |
| Creep Reduced Strength | MD | ASTM D 5262 | Lb/ft /kN/m | 1300 / 18.98 |
| | XD | ASTM D 5262 | Lb/ft /kN/m | 1300 / 18.98 |
| Long-Term Design Strength (LTDS) in (sand, silt, and clay) | MD | GRI –GG4 | Lb/ft /kN/m | 1126 / 16.43 |
| | XD | GRI –GG4 | Lb/ft /kN/m | 1126 / 16.43 |
| PHYSICAL PROPERTIES | | | | |
| Weight | | Minimum | Oz/yd ² // g/m ² | 7.35 / 250 |
| Roll Length ⁽²⁾ | | Minimum | ft/m | 164.04 / 50.0 |
| Roll Width ⁽²⁾ | | Minimum | ft/m | 3.34 / 1.02 and 10.17 / 3.10 |

NOTE:(1) Mean values; (2) typical. Standard roll lengths are shown; the products may be fabricated to custom lengths to suit the contractor's requirements.

CHECKMATE FLEXGRID™ MICROMESH MX1 Typical Applications:

- Wrap face material for steepened slopes
- Excellent surface erosion control
- Mechanically and chemically stable, in both harsh construction installation phase and in aggressive soil environments (pH level 2.0 – 12.0)

Disclaimer: Checkmate reserves the right to change these specifications without notice and at its sole discretion. The user of this specification sheet is required to obtain formal confirmation from Checkmate of the current specification of the product it intends to use.



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GEOSYNTHETICS